



# ***STIC Search Report***

## ***EIC 2600***

**STIC Database Tracking Number: 112225**

**TO: Melanie Vida  
Location: Pk1 4A07  
Art Unit: 2626  
Wednesday, January 21, 2004**

**Case Serial Number: 09/385335**

**From: Pamela Reynolds  
Location: EIC 2600  
PK2-3C03  
Phone: 306-0255**

**Pamela.Reynolds@uspto.gov**

### **Search Notes**

Dear Melanie Vida,

Please find attached the search results for 09/385335. I used the search strategy I emailed to you to edit, which you did. I searched the standard Dialog files, IEEE, the wayback machine, and the internet.

If you would like a re-focus please let me know.

Thank you.

Pamela Reynolds

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Melanie Vida Examiner #: 79793 Date: 1-15-04  
 Art Unit: 2626 Phone Number 306-4220 Serial Number: 09/385,335  
 Mail Box and Bldg/Room Location: \_\_\_\_\_ Results Format Preferred (circle): PAPER DISK E-MAIL

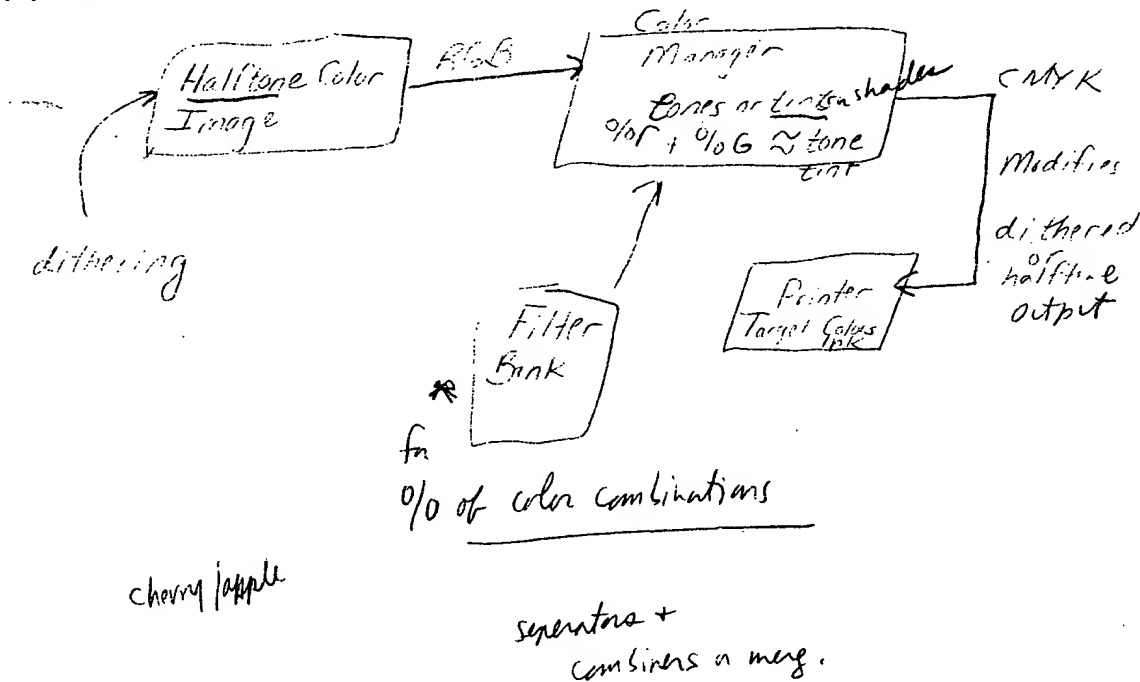
If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*  
 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: System and Method for Producing Halftoned Color Separations for an Output Imaging Device  
 Inventors (please provide full names): B. Cook et al.

Earliest Priority Filing Date: \_\_\_\_\_

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.



## STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Patricia Reynolds</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>306-0211</u>	AA Sequence (#) _____	Dialog <u>✓</u>
Searcher Location: <u>PK23603</u>	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: <u>1-21-04</u>	Bibliographic <u>✓</u>	Dr. Link _____
Date Completed: <u>1-21-04</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>92</u>	Fulltext <u>✓</u>	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet <u>✓</u>
Online Time: <u>208</u>	Other _____	Other (specify) <u>✓ way back</u>

ver.1

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Set	Items	Description
S1	79	HALFTONE? OR HALF()TONE? OR DITHER?
S2	25157	(IMAG? OR GRAPHIC? OR PICTURE? OR PHOTO OR PHOTOS OR PHOTO- GRAPH??)
S3	4636	(COLOUR? OR COLOR? OR RGB OR RED()GREEN()BLUE)
S4	181	CMYK OR CYAN()MAGENTA()YELLOW()BLACK
S5	344	TONE?? OR TINT?? OR HUES OR SHADES
S6	3866	PRINTER? OR PRINTING OR PRINTS
S7	3325	FILTER?
S8	10664	PERCENTAGE? OR PERCENT?? OR AMOUNT?? OR FRACTION? OR QUANT- I?
S9	344	(CHERRY()APPLE OR PIGMENT? OR DYE OR SHADE? OR GRADATION?)
S10	1	SEPERAT? AND S3
S11	618	(MIX? OR RECOMBIN? OR JOIN? OR MERG? OR COMBIN?) AND (COLO- UR? OR COLOR?)
S12	7	GAMUT AND (MAP OR MAPPING OR MAPS)
S13	103	INK AND S6
S14	563	(S3 OR S4) AND (MISSING OR UNAVAILABLE OR LACK OR LACKING - OR WITHOUT)
S15	5229	LOWPASS? OR HIGHPASS OR (LOW OR HIGH()PASS?)
S16	0	S1 AND S3 AND S4 AND S8
S17	22	S3 AND S4 AND S8
S18	5	S17 AND S7
S19	29	S8 AND S9
S20	2	S19 AND S6
S21	2	S20 NOT S18
S22	6	S13 AND (S3 OR S4) AND S5
S23	6	S22 NOT (S20 OR S18)
S24	43	S14 AND S15
S25	4	S24 AND S7
S26	4	S25 NOT (S22 OR S20 OR S18)
S27	1	S5 AND S8 AND S3 AND S4
S28	1	S27 NOT (S25 OR S22 OR S20 OR S18)
S29	31	AU= (COOK, R? OR HYLANDS, D? OR BLONDAL, D? OR COOK R? OR - HYLANDS D? OR BLONDAL D?)
S30	0	S1 AND S29
S31	0	S1 AND S3 AND S4 AND S5
S32	2	S29 AND S6

10/3,K/1

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00105181 DOCUMENT TYPE: Review

**PRODUCT NAMES: Separation Lab 1.0 (680478)**

**TITLE: Separation Lab: Low-cost profiles**

**AUTHOR: Fraser, Bruce**

**SOURCE: MacWEEK, v11 n45 p11(2) Nov 24, 1997**

**ISSN: 0892-8118**

**HOME PAGE: <http://www.macweek.com>**

**RECORD TYPE: Review**

**REVIEW TYPE: Review**

**GRADE: A**

**REVISION DATE: 20001130**

**TITLE: Separation Lab: Low-cost profiles**

...normally would make to build a profile. For those who have battled trying to use **ColorSync**, Separation Lab may also be a viable alternative. The product has a great deal of...

...the separations. An info window lets the user lock a densitometer probe on a specific **color** and monitor changes to the value as the profile is edited. However, more interactive features...

**DESCRIPTORS: Apple Macintosh; Color Separation; Graphics Tools; Image Processing; MacOS; Print Utilities**  
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18/3,K/1

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00134046 DOCUMENT TYPE: Review

PRODUCT NAMES: PhotoRetouch Pro (060356); Paint Shop Pro 7 (373656);  
Adobe Photoshop Elements (036455); Painter (717371); Corel KnockOut 1.5  
(024384)

TITLE: The Other Image Editing Apps: A review of professional...

AUTHOR: Varn, Scott

SOURCE: Digital Output, v7 n9 p24(4) Sep 2001

ISSN: 1083-5121

HOME PAGE: <http://www.digitalout.net>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20020422

...it have support for the Web. What it does have in abundance is efficiency and **color** accuracy. Its key feature is its proprietary **color** lookup tables (LUTs) that improve **CMYK** output. Paint Shop Pro 7 is a Windows-only product and has an impressive number...

...eat away at Photoshop 6's sales. Although Painter does not have features like selective **color** correction or an Unsharp Mask **filter**, from a creativity point of view, it stands above any artistic image program. Corel Knockout is a specialty product that will knock out backgrounds in a **fraction** of the time it would take a Photoshop expert.

18/3,K/2

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00128078 DOCUMENT TYPE: Review

PRODUCT NAMES: PhotoScripter (725277)

TITLE: Following the Program: Photoshop Plug-In Helps Image Editors...

AUTHOR: Simone, Cal

SOURCE: Digital Imaging, p31(1) Nov/Dec 2000

ISSN: 1084-5119

HOME PAGE: <http://www.digitalimaging.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20010330

...s AppleScript language, offers automated image processing, which speeds images through production faster. About 80 **percent** of Photoshop's functions are accessible through basic commands that create customizable, automated image processing...

...horizontal or vertical; rotates it into portrait orientation if needed; sets a selection; changes the **color** space to **CMYK**; applies a **filter**;

saves the image in a new document; and closes the window. Also described is a...

18/3,K/3

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00105533 DOCUMENT TYPE: Review

PRODUCT NAMES: Adobe Photoshop (213756); Test Strip (667081);  
IntelliHance 3.0 (619167); Extensis Mask Pro (681709)

TITLE: Plug Into the Future: Meet the Next Generation of Photoshop  
Plug-Ins

AUTHOR: Rodney, Andrew

SOURCE: Photo>Electronic Imaging, v40 n9 p22(5) Sep 1997

ISSN: 0146-0153

HOME PAGE: <http://www.peimag.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20020422

...Strip and Extensis's IntelliHance 3.0 and MaskPro are discussed Adobe Photoshop plug-in **filters**. Test Strip is marketed as 'Photoshop's Variations on steroids,' and this description is close...

...users should have it, because while it operates like Variations by providing a series of **color** or density patches, it also provides more control and features. It also provides another benefit...

...of working on layers or selections, and on a complete image. Test Strip works with **RGB** and **CMYK** files, and can make tiny adjustments as small as 1 **percent**. A **Color** Wheel Slider provides control over which part of an image gets **color** correction. IntelliHance provides all the tools required to assess and enhance an image using an...

DESCRIPTORS: **Color** Matching; Graphics Tools; Image Processing;  
Photography; Photoshop

18/3,K/4

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00103985 DOCUMENT TYPE: Review

PRODUCT NAMES: WildRiverSSK (681148); Eye Candy 3.0 (651648)

TITLE: WildRiverSSK 1.0/Eye Candy 3.0

AUTHOR: Berger, Ralph

SOURCE: Publish, v12 n6 p48(2) Jun 1997

ISSN: 0897-6007

HOME PAGE: <http://www.publish.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: B

REVISION DATE: 20000530

...Photoshop-compatible special effects packages. Eye Candy, a product previously called Black Box, has 21 **filter** effects. WildRiverSSK provides only seven, but three are just about complete **filter** labs all by themselves. Both products have exciting texture creation tools. WildRiverSSK has MagicMask, a powerful embossing, texturing, and shadowing tool that includes 24 **filters**. MagicCurtain is also provided, for creating gradients, textures, and **coloring** effects, and MagicFrame, which creates millions of rectangular frames. The DekoBoko **filter** creates the highest quality carved bevel effects available from any product. More subdued offerings are TileMaker, Chameleon (a **color** remapper), and TVSnow, which generates attractive visual noise, rain, and beam effects. MagicMask's most complex **filters**, MagicCurtain and MagicFrame, ship with gaudy preset effects, and other **filters** have no presets at all. All but two of Eye Candy's **filters** work on **CMYK** files, with scrollable previews that zoom up to 1,600 **percent** for almost all **filters**; a Before view of the image is also provided. In Eye Candy, Black Box's excellent Carve and Bevel **filters** make a comeback for creation of embossed type and buttons, and 11 new **filters** are provided, among them Fur and Water Droplets.

18/3,K/5

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00068380

DOCUMENT TYPE: Review

PRODUCT NAMES: Extensis Intellihance Pro LE 1.2.9 (479209); Extensis Intellihance Pro 1.2.9 (479209)

TITLE: Intellihance 1.2.9

AUTHOR: Coleman, Dale

SOURCE: MacWEEK, v8 n35 p39(1) Sep 5, 1994

ISSN: 0892-8118

HOME PAGE: <http://www.macweek.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20030330

Intellihance 1.2.9, a set of intelligent Photoshop plug-in **filters**, is available in both the Intellihance LE Collection and the Intellihance Pro Collection. The Pro Collection includes Pro GS, Pro, **RGB**, and Pro **CMYK** versions. Pro is designed for professional image designers who require minute control over adjustments and output. Pro **RGB** has features for cast removal, monitor and scanner calibration, and **CMYK** separation tables. Pro **CMYK** adds features for dot gain compensation, highlight loss, shadow plugging, descreening, automatic black generation adjustment...

...software automatically assesses adjustments needed. Intellihance is recommended for those who want to reduce the **amount** of time needed for image retouching, and will pay for itself quickly in time saved.

DESCRIPTORS: Apple Macintosh; **Color** Matching; **Color** Separation;  
Graphics Tools; Image Processing; MacOS

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21/3,K/1

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00142546 DOCUMENT TYPE: Review

PRODUCT NAMES: Dylux (139696); Sherpa 43 (089052); Apogee Proofer RIP  
(139718)

TITLE: Proofing by Numbers: Digital proofing solutions enter the  
workflow...

AUTHOR: Whitcher, Joann Strashun

SOURCE: Graphic Arts Monthly, v74 n9 p37(4) Sep 2002

ISSN: 1047-9325

HOME PAGE: <http://www.gammag.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20030228

...quality and uniformity. Halftone dots are still important in contract proofing in the U.S. **printing** industry, but the their role is getting smaller, says Dan Johansen, product Two years ago, 20 **percent** of **printers** used an Iris or DuPont WaterProof inkjet **printing** device. However, according to Berlin Industries, a proof with halftone dots is still more widely...

...Creo Trendsetter plate setter with Spectrum Proofing option. A Final Proof system from Fujifilm makes **pigmented** halftone dot color proofs from roll media. A DuPont Dylux with an Agfa Sherpa II...

DESCRIPTORS: Hardware Selection; **Printing** & Graphic Arts; Soft Proofing

21/3,K/2

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00108209 DOCUMENT TYPE: Review

PRODUCT NAMES: Universal Animator Macintosh & Windows (699942); WebVise  
Totality Macintosh & Windows (689904)

TITLE: Auto F/X Serves Up Double Shot for Web Imaging Pros

AUTHOR: Simmons, Christopher

SOURCE: Digital Imaging, p22(1) Mar 1998

ISSN: 1084-5119

HOME PAGE: <http://www.digitalimaging.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20010330

...This allows users to integrate images and text elements from several different programs simply by **printing** the individual images into Universal Animator. Instructions are lacking, and it takes a fair **amount**

of playing around with the small control panel to get the best results from this overpriced application. WebVise Totality has a powerful GIF compression engine for organizing and prioritizing color **shades** during optimization and dithering. Compression ratios for JPEG files go up to 120:1, and...  
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23/3,K/1

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00142439

DOCUMENT TYPE: Review

PRODUCT NAMES: Company--Pantone Inc (878201)

TITLE: Living Color : Pantone owns the monopoly on every tint , tone , and...

AUTHOR: Herz, J C

SOURCE: Wired, v10 n10 p102(2) Oct 2002

ISSN: 1059-1028

HOME PAGE: <http://www.wired.com>

RECORD TYPE: Review

REVIEW TYPE: Company

REVISION DATE: 20030130

TITLE: Living Color : Pantone owns the monopoly on every tint , tone , and.....

Pantone, which has designed and owns names for all **colors** and their spectrometric descriptions, is a company that has been run very successfully and efficiently...

...it from bankruptcy by devising a palette of 14 base inks that would generate 500 **colors** . Pantone sold the system to **printers** and **ink** companies, which got Pantone on a list of approved companies that would be sent to...

...industry. The Pantone specification book reached designers' desks in 1964, marking the first time that **printers** could dependably reproduce **colors** . Fortunately, the psychedelic revolution of the 1960's followed. Herbert was named CEO in 1962...

...children are all executives for Pantone, and are as market savvy as their father. A **color** forecasting initiative is one example, and another is expansion into the retail market with Pantone...

...ships with a highly visible Pantone code. Pantone's revenues are still overwhelmingly from its **color** swatches and chips and its software licenses, but the retail products show the modernity of the company. Billions of dollars in product launches rest on **color** decisions, and Pantone is an acknowledged authority on **color** .

DESCRIPTORS: **Color** Matching; Graphics Tools; Software Marketing

23/3,K/2

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00136229

DOCUMENT TYPE: Review

PRODUCT NAMES: Sherpa (089052); Approval XP4 (089061); Polaproof (089079)

TITLE: Digital color proofing gains ground: With a wide variety of...

AUTHOR: Bury, Scott  
SOURCE: Electronic Publishing Magazine, v25 n12 p22(6) Dec 2001  
ISSN: 1097-9190  
HOMEPAGE: <http://www.electronic-publishing.com>

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

REVISION DATE: 20021226

**TITLE: Digital color proofing gains ground: With a wide variety of.....**

...Kodak Polychrome Graphics' Approval XP4, Polaroid Graphic Imaging's Polaproof, and Best GmbH's Best **Colorproof** HP Designjet Edition are among many **printers** that provide **color** -proofing functions. At the lowest end of the market are inexpensive inkjet **printers** , and at the highest end are the most dependable digital halftone dot-producing **color** proofing systems. Many proofing choices are available in between, including a 'composite' **printer** costing under \$1,000 that will provide quite accurate **color** , but not a contract proof. More costly 'contract' proofers promise to produce press-accurate, continuous- **tone** imagers. Because a perfect **color** match is not always required when a **color** proof is made, the industry has coined the term 'position proof' to include designers' comps, imposition proofs, and other intermediate **color** output. For a productive studio or print shop, the Canon BJC 8500 desktop **printer** provides six **ink** **colors** and 1200x1200 dpi resolution on paper as large as 13 inches by 19 inches. Some **color** **printers** manage **color** uniformly enough to provide a contract proof, which can be used to judge **color** and can precisely and reliably predict **color** from the offset press. The iProof from Iris Graphics is a good example of the 'contract contone' **printer** , while the Approval XP is a halftone proof and a 4-up device that uses...

DESCRIPTORS: **Color** Matching; Electronic Publishing; Graphics Tools;  
Print Utilities; Soft Proofing

23/3,K/3  
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00107614 DOCUMENT TYPE: Review

**PRODUCT NAMES: Soft Proofing (837725)**

**TITLE: Do It Yourself: Digital proofing technology makes its move to the...**

AUTHOR: LiPetri, Joe  
SOURCE: Micro Publishing News, pN4(2) Jan 1998  
HOMEPAGE: <http://www.micropubnews.com>

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

REVISION DATE: 20011030

A discussion of digital **color** proofing emphasizes the need for devices that can output hard-copy versions of on-screen images. Devices that can output photo-quality **prints** have heretofore cost over \$5,000. Another

choice is to send files to an imaging...

...lower cost that could meet users' needs. They include the Epson Stylus Photo, a six- **color** , 720-dpi desktop **printer** than can output an 8.5x11-inch print in under six minutes. However, a user...

...RIP software and the need to make it compatible with a Macintosh 8500-connected laser **printer** . A manual A/B switchbox allowed interoperation. The Stylus Photo has a small footprint and can print very fine dots, so that its output can be high-quality, continuous **tone** images. The images produced are exceptionally fine, with quality much higher than digital **color** copies. The output can approach the quality of Iris proofs. In addition, the **printer** has a separate black **ink** cartridge that also permits production of very sharp typefaces in designs, even when small point sizes are used. Several users describe lower-cost **printers** that produce high-quality, hard-copy versions of on-screen images.

DESCRIPTORS: Apple Macintosh; Graphic Arts; Graphics Tools; Image Processing; MacOS; **Printing** & Graphic Arts; Soft Proofing; WYSIWYG

23/3,K/4

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00101212 DOCUMENT TYPE: Review

PRODUCT NAMES: **Soft Proofing** (837725)

TITLE: **New form, old worries with digital proofing**

AUTHOR: Baard, Mark

SOURCE: MacWEEK, v11 n16 p24(3) Apr 21, 1997

ISSN: 0892-8118

HOME PAGE: <http://www.macweek.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20011030

Many products can increase digital **color** -proofing options. Rainbow proofer from Imation and Phaser 480X from Tektronix are two dye sublimation proofers that offer 300-dots per inch (dpi) resolutions and continuous **tone** images that take only 10 to 20 minutes to output, depending on file size. Iris Realist 5015 from Scitex America's Iris Graphics division is an **ink** -jet proofer that provides output similar to that of a dye-sub Imation proofer and also provides good **color** and shorter print times. The Kodak Approval Digital **Color** Proofing System from Eastman Kodak produces 1,800-dpi images on production stock, up to...

...cost make it more appropriate for service bureaus. Digital proofs, with the exception of half **tones** , still do not measure up to those of Matchprints, the analog standard in the publishing...

...digital proofers, Radius's Pressview 21 SR monitors feature antiglare coatings and compatibility with many **color** management applications.

DESCRIPTORS: Apple Macintosh; Graphics Tools; MacOS; **Printing** & Graphic Arts; Soft Proofing; Typesetting; WYSIWYG



23/3,K/5

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00080053 DOCUMENT TYPE: Review

**PRODUCT NAMES:** Colorize 2.0 (487121

**TITLE:** Colorize 2.0  
**AUTHOR:** Long, Ben  
**SOURCE:** MacWEEK, v9 n29 p30(1) Jul 24, 1995  
**ISSN:** 0892-8118  
**HOME PAGE:** <http://www.macweek.com>

**RECORD TYPE:** Review  
**REVIEW TYPE:** Review  
**GRADE:** B

**REVISION DATE:** 20010630

**PRODUCT NAMES:** Colorize 2.0...

**TITLE:** Colorize 2.0

DS Design's **Colorize** 2.0, rated very good overall, is a useful Macintosh **coloring** application for illustrators, cartoonists, and others who frequently add **color** to B&W bit-mapped images. It lacks needed scanner, **printing**, pressure-sensitive table, and anti-aliasing support. For artists who draw with pencil or **ink** and use a Mac to **color** scanned illustrations, **Colorize** is easy to integrate with other tasks. The user scans an image (with another product), opens and **colors** it, and exports for use in another application. Powerful tools from the **Shades** palette include Brush and Paint to Edge. **Color** stays inside broken lines, which makes **Colorize** the best performer for adding **color** to enclosed spaces. The easy to use Transfer tool allows users to try out **colors** by brushing, and other tools include Outline, Despeckle, and a gradient feature for defining two- **color** gradients.

23/3,K/6

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00060999 DOCUMENT TYPE: Review

**PRODUCT NAMES:** EfiColor (375527); Cachet (378691); ActionArt (489531);  
QuarkXPress (015910)

**TITLE:** Donnelley's Color Solutions Aren't Just Black and White  
**AUTHOR:** Coale, Kristi  
**SOURCE:** MacWEEK, v8 n1 p48(2) Jan 3, 1994  
**ISSN:** 0892-8118  
**HOME PAGE:** <http://www.macweek.com>

**RECORD TYPE:** Review  
**REVIEW TYPE:** Review  
**GRADE:** A

REVISION DATE: 20020923

**TITLE: Donnelley's Color Solutions Aren't Just Black and White0**

The world's largest **printing** company uses EFiColor **Color** Management System to tie together the entire proofing and **printing** system. The in-house developed product works with custom profiles for the **printing** firm's presses, to adapt to **ink** , stock, and press conditions. EFi **Color** Management converts **colors** between input and output devices, going far beyond matching **CMYK** and **RGB color** . EFi **Color** processes many variables as it coordinates **color** for the many devices in use, using a sample set of **color** patches from a web offset press. The software creates an EFiColor profile based on the sample, and the profile is stored as a **color** table, providing specific parameters for the directory inks used. Applications like EFi Cachet, PhotoShop, QuarkXPress, or ActionArt can be used to meld line art and continuous **tone** image.

DESCRIPTORS: Apple Macintosh; **Color** Matching; Graphics Tools; MacOS;  
**Printing** & Graphic Arts; QuarkXPress

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26/3,K/1

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00141786 DOCUMENT TYPE: Review

PRODUCT NAMES: Final Cut Pro 3 (765139)

TITLE: Apple Final Cut Pro 3.0

AUTHOR: Sauer, Jeff

SOURCE: eMedia, v15 n8 p56(3) Aug 2002

ISSN: 1525-4658

HOME PAGE: <http://www.onlineinc.com/emedial>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20021230

...improves on the earlier, excellent versions, to provide enough function and usability at a price **low** enough to make any Apple desktop or notebook computer a highly able nonlinear editing studio...

...G4s, about one-fifth of transitions can be done in real time on Apple processors **without** third-party hardware; they are only for preview, not for printing to tape. Users can now tune **color** in real time with the three way **color** correction **filter**, and OfflineRT is the new mode for DV (and other) capture at much less than...

26/3,K/2

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00114469 DOCUMENT TYPE: Review

PRODUCT NAMES: Ray Dream 3D Macintosh (687227)

TITLE: Natural 3D forms

AUTHOR: Hott, Celli

SOURCE: Step-By-Step Electronic Design, v10 n12 p14(4) Dec 1998

ISSN: 1055-2774

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20010430

...s Extrusion Envelope function can be used to create natural curves. Ray Dream is an **RGB** application, and testers, who drew 3D cookies, were challenged to develop a set of **colors** that would still look edible when converted to **CMYK** for printing. Two shades of brown were mixed in the Shader Editor to **color** the cookies, and the Shader Editor was also used for several other tasks. **Low** Highlight and High Shininess were used to create as much tonality as possible from two shades of brown in the cookies, **without** adding gloss. Bump settings were tuned to create a grainy cookie-type texture. Surface Fidelity...

...drawn in Illustrator, with Anchor Points. The shape was bloated with the Punk and Bloat **filter** . Various other tips and operations are briefly described.

26/3,K/3

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00082199 DOCUMENT TYPE: Review

PRODUCT NAMES: Image-In Easy Photo (582298); Corel PHOTO-PAINT 5 Plus (528978); Adobe Photoshop (213756); Picture Publisher for Windows (208001)

TITLE: The Digital Darkroom

AUTHOR: Harrel, William

SOURCE: Home Office Computing, v13 n9 p90(4) Sep 1995

ISSN: 0899-7373

HOME PAGE: <http://www.smalloffice.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20030221

Image editing programs for the PC or Macintosh give businesses **low** cost, in-house control over graphics materials. Key functions include photo retouching, creative effects, professional output, **color** matching, image management, and support for file format conversion. Four products are reviewed, including the...

...Systems' Adobe Photoshop, an industry-leading image processing package, gets similar ratings, especially for new **filter** preview functions. Photoshop has the most comprehensive feature set of the four products reviewed, and...

...In Easy Pro is as powerful as the other packages, but ease of use is **lacking** and program design is confusing.

26/3,K/4

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00070972 DOCUMENT TYPE: Review

PRODUCT NAMES: DatagLANce 1.1 (534889); DatagLANce 1.2 (534889)

TITLE: IBM Offers a Glance at Network Traffic Through OS/2

AUTHOR: Alderson, Bill Haugdahl, J Scott

SOURCE: Network Computing, v5 n11 p117(1) Oct 1, 1994

ISSN: 1046-4468

HOME PAGE: <http://www.NetworkComputing.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20020630

IBM's DatagLANce 1.1 OS/2 protocol analyzer/network monitor is a low-priced competitor to Sniffer and Network Advisor LAN analysis systems. The product has outstanding, intelligent, statistical analysis features; it works **without** IBM branded EtherNet or token-ring adapters. During tests on an IBM ThinkPad 350, for...

...several graphical monitoring windows display statistics collection functions. Network status data is well implemented and **color** -coded so that the user can see specific error conditions clearly and quickly. A ring ...

...for token-ring LANs. DatagLANce 1.2 provides traffic generation and playback; network level address **filters** ; dual capture and monitor for two segments, and other enhancements.

?

28/3,K/1

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00084107 DOCUMENT TYPE: Review

PRODUCT NAMES: Icefields 2.3 (587699)

TITLE: Icefields 2.3

AUTHOR: Blatner, David Roth, Steve

SOURCE: Macworld, v12 n11 p75(1) Nov 1995

ISSN: 0741-8647

HOME PAGE: <http://www.macworld.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20001130

The **Color** Partnership's Icefields 2.3, a Macintosh stochastic screening software package, is rated very good...

...stochastic screening), an alternative to standard half toning; both techniques improve image details, increase printable **color** range, and eliminate unwanted moire patterns that can appear in process **color** separations. Stochastic screening varies the **quantity** of dots in an area to proportion **tint percentages**. The technique is recommended for quality printing, flexography, and silk-screening. Icefields' mode of operation is simple; it reads gray-scale and **CMYK** TIFF files to generate stochastically screened files in desktop **color** separation (DCS) format. Icefields 2.3 is recommended for those who print at 200-lpi...

DESCRIPTORS: Apple Macintosh; **Color** Separation; Graphic Arts; Graphics Tools; Image Processing; MacOS; Printing & Graphic Arts

?

32/3,K/1

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
(c)2004 Info.Sources Inc. All rts. reserv.

00122595 DOCUMENT TYPE: Review

PRODUCT NAMES: Publishing (830461); Music (830917); Internet Marketing  
(835552)

TITLE: Distribution Channels: Ties That Bind

AUTHOR: Cook, Rick

SOURCE: MicroTimes, v203 p89(2) Feb 1, 2000

HOME PAGE: <http://www.microtimes.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20000530

AUTHOR: Cook, Rick

...by do-it-yourself publishing operations that combine the power of  
computer publishing and modern **printers** with the marketing capability of  
the Web. The recording industry, alarmed over how easy it...

32/3,K/2

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00062275 DOCUMENT TYPE: Review

PRODUCT NAMES: AIX (695947); POWERlan (212253); Advanced PICK (016394);  
OpenPick (498947)

TITLE: Georgia Medical Care Foundation: Open Systems as the Low-Cost  
Option

AUTHOR: Cook, Rick

SOURCE: UniForum Monthly, v14 n2 p16(6) Feb 1994

ISSN: 1069-0417

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20020819

AUTHOR: Cook, Rick

...6 minicomputer running Pick. The RS/6000, a hub that shares resources  
for all attached **printers**, supports mainframe **printers**. PCs and servers  
run MS-DOS, Microsoft Windows, and POWERlan on an ARCnet network. In...  
?

? ds

Set	Items	Description
S1	9236	(FILTER? OR SCREEN?)
S2	81	(HALF()TON? OR DITHER? OR ERROR()DIFFUS? OR HALFTON?)
S3	0	S1 AND S2 AND (INPUT OR ORIGINAL) AND (OUTPUT OR PRINT?)
S4	3914	(TINT? OR SHADE? OR SPOT OR CHERRY()APPLE OR CHERRY OR ROSE OR RED OR BRICK OR GREEN()YELLOW OR MAROON OR TONE OR GRADAT- ION OR HUE OR LIGHT OR DARK)
S5	2510	(MAGENTA OR CYAN OR RED OR GREEN OR BLUE OR YELLOW OR RGB - OR CMYK )
S6	6929	PERCENT? OR FRACTION?
S7	6660	(COLOR? OR COLOUR? OR COLORANT? OR COLOURANT? OR INK? OR - DYE?? OR SHADE?? OR TINT?? OR SPOT OR TONE?? OR GRADATION? OR HUE?? OR CONTRAST???)
S8	121	S1 AND BITMAP?
S9	5468	(TINT? OR SHADE? OR GRADATION? OR SPOT OR TONE? OR HUE? OR COLOR? OR COLOUR? OR COLOURANT? OR COLORANT?)
S10	7	S2 AND S6
S11	5628	(COLOR? OR COLOUR? OR COLOURANT? OR TINT? OR TONE? OR SHAD- E? OR GRADATION? OR INK?)
S12	6007	(COLOR? OR INK? OR COLOUR? OR COLORANT? OR COLOURANT? OR T- INT? OR TONE? OR SHAD??? OR GRADATION?)
S13	0	S12 AND COMBIN? AND S1 AND S2
S14	1	S4 AND S5 AND S6 AND S7 AND S1 AND S2
S15	3	S8 AND S9 AND S2
S16	3	S15 NOT S14
S17	5623	S11 AND S12
S18	1239	S17 AND S1
S19	20	S18 AND S2
S20	16	S19 NOT (S15 OR S14 OR S16)



14/3,K/1

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00084107 DOCUMENT TYPE: Review

PRODUCT NAMES: Icefields 2.3 (587699)

TITLE: Icefields 2.3

AUTHOR: Blatner, David Roth, Steve

SOURCE: Macworld, v12 n11 p75(1) Nov 1995

ISSN: 0741-8647

HOME PAGE: <http://www.macworld.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20001130

The **Color** Partnership's Icefields 2.3, a Macintosh stochastic **screening** software package, is rated very good for low price, support for clipping paths from Adobe...

...control over dot size, and a handy calibration tool. The product supports frequency-modulated (FM) **screening** (stochastic **screening**), an alternative to standard **half toning**; both techniques improve image details, increase printable **color** range, and eliminate unwanted moire patterns that can appear in process **color** separations. Stochastic **screening** varies the quantity of dots in an area to proportion **tint percentages**. The technique is recommended for quality printing, flexography, and silk- **screening**. Icefields' mode of operation is simple; it reads gray-scale and **CMYK** TIFF files to generate stochastically **screened** files in desktop **color** separation (DCS) format. Icefields 2.3 is recommended for those who print at 200-lpi...

DESCRIPTORS: Apple Macintosh; **Color** Separation; Graphic Arts; Graphics Tools; Image Processing; MacOS; Printing & Graphic Arts  
?

16/3,K/1

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00096905 DOCUMENT TYPE: Review

**PRODUCT NAMES:** Image Processing (830196); Neural Networks (830078);  
Digital Video (830268)

**TITLE:** Pro Crunch Motion

**AUTHOR:** Proffit, Brian

**SOURCE:** OS/2 Magazine, v3 n10 p51(5) Oct 1996

**ISSN:** 1073-1547

**HOME PAGE:** <http://www.mfi.com>

**RECORD TYPE:** Review

**REVIEW TYPE:** Product Comparison

**GRADE:** Product Comparison, No Rating

**REVISION DATE:** 20010730

...1.0 are OS/2 products reviewed. JView Pro is a graphics product that supports **bitmaps** in OS/2 or Windows format, GIF, JPEG, Portable **Bitmap**, Sun Raster, Targa, and X 11 files natively. Users can grab images from the desktop with the included **screen** capture utility. **Colors** are adjustable using RGB, HSV, HLS, Luv, or CMYK mapping, and several **dithering** methods are supported for monotone output. Images can be make into icons, so that an...

...DESCRIPTORS: Digital Video; Expert Systems; Graphics Tools; IBM PC & Compatibles; Image Processing; Neural Networks; OS/2; **Screen** Utilities

16/3,K/2

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00093226 DOCUMENT TYPE: Review

**PRODUCT NAMES:** Adobe Photoshop (213756); Diamond Screening (630799);  
ESCOR-FM (630624); Icefields (587699)

**TITLE:** Stochastic Screening Brings Out the Details

**AUTHOR:** Blatner, David

**SOURCE:** Macworld, v13 n10 p160(2) Oct 1996

**ISSN:** 0741-8647

**HOME PAGE:** <http://www.macworld.com>

**RECORD TYPE:** Review

**REVIEW TYPE:** Product Analysis

**GRADE:** Product Analysis, No Rating

**REVISION DATE:** 20020923

...PRODUCT NAMES: 213756); Diamond Screening (

**TITLE:** Stochastic Screening Brings Out the Details

Adobe Systems' Adobe Photoshop, Agfa's CristalRaster, Linotype-Hell's Diamond **Screening**, PrePress Solutions' ESCOR-FM, and Isis Imaging's

IceFields are all tools for Macintosh users doing stochastic **screening** . Stochastic **screening** , an alternative to traditional **half - tone screening** , gets rid of the evenly spaced grid of a **half - tone** and instead uses a spray of tiny dots with no visible pattern. Most printed material would look better with stochastic **screening** , but many publishers think it is only for the high-end graphics market. However, the...

...market, including newspapers, newsletters, magazines, and catalogs, probably would gain the most advantages from stochastic **screening** . Three methods are available: diffusion **dither bitmapping** , as with Photoshop; imagesetting with CristalRaster, Diamond **Screening** , and ESCOR-FM; and a utility such as Icefields that allows users to convert gray...

16/3,K/3

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00084614 DOCUMENT TYPE: Review

PRODUCT NAMES: FreeHand 5.5 (419257)

TITLE: FreeHand 5.5 gains a few tricks from bit-map programs

AUTHOR: Long, Ben

SOURCE: MacWEEK, v9 n46 p51(2) Nov 27, 1995

ISSN: 0892-8118

HOME PAGE: <http://www.macweek.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20001130

...version is compatible with Photoshop plug-ins and is capable of transforming vector graphics into **bitmaps** . Also, many tasks that would otherwise have to be done on a paint program can...

...drawing tools and rasterize them into bit-mapped PICT images. Users can specify antialiasing levels, **dithering** , number of **colors** , and resolution. The converted graphics do not include clipping paths, however, so an extra step...

...apply most Photoshop plug-ins to images simply by selecting the image and choosing the **filter** from the Xtras menu. However, using **filters** from within FreeHand consumes a high amount of RAM.  
?

20/3,K/1

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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01657042 DOCUMENT TYPE: Product

**PRODUCT NAME: Rampage RIPing System (657042)**

Rampage Systems Inc (562327)  
411 Waverly Oaks Rd #138  
Waltham, MA 02154 United States  
TELEPHONE: (781) 891-9400

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20020730

...RIPing System is compatible with PostScript-3 technology, allowing users to drive imagesetters, platesetters, and **halftone** proofing systems from a range of manufacturers. Rampage RIPing System runs on PCs, but it...

...to user-configured defaults. The feature eliminates manual trapping and improves productivity. It also changes **color** values in overlap areas, improving image quality. Rampage RIPing System's interactive, object-based trapping...

...additional production checkpoint. Rampage RIPing System works with Agfa, ECRM, Cybolic Sciences, Basys, FujiFilm, Heidelberg, **Screen**, Gerber/Barco, Presstek, Creo, Kodak, Krause, Omni-Adast, and Optronics devices.

20/3,K/2

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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01607436 DOCUMENT TYPE: Product

**PRODUCT NAME: Graphics Conversion & Printing Utilities (607436)**

Dynacomp Inc (095443)  
4560 E Lake Rd  
Livonia, NY 14487 United States  
TELEPHONE: (585) 346-9788

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20010504

...at converting between different pictorial file formats, viewing graphics files, and transforming graphics files into **halftone** and **dithered** B&W formats for printing. Depending on the file size, 512K to 640K is required. For conversion, the file formats handled include EPS, GEM, GIF (up to 256 **colors**), MacPrint, PC Paintbrush (up to 256 **colors**), BMP, ICOM, PIF, WordPerfect (WPG), and TIFF (monochrome). Files can be viewed, and **dithered / halftoned** for printing on LaserJet or Postscript printers.

Black-and-white clip art can also be created (PIF, BMP formats). Accurate **dithered** B&W images may also be printed full or reduced size from the following additional...

...using histogram correction-based routines. No graphics card is required for processing and printing, although **screen** viewing does.

**20/3,K/3**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
(c)2004 Info.Sources Inc. All rts. reserv.

01133469 DOCUMENT TYPE: Product

**PRODUCT NAME: Flaming Pear Essentials (133469)**

Jasc Software Inc (528013)  
7905 Fuller Rd  
Eden Prairie, MN 55344 United States  
TELEPHONE: (952) 934-8888

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20030228

...s Flaming Pear Essentials (TM) is a graphics special effects plug-in that includes nine **filters**. Employing Flaming Pear Essentials' Blade-Pro feature, users can create 3D metallic and glass effects...

...Flaming Pear Essentials' Solar Cell supports the creation of virtual suns. The product's India **Ink filter** allows users to convert **color** images into black and white **halftones**. The **filter** includes 15 customizable effects. Flaming Pear Essentials works with Paint Shop Pro or with other...

**20/3,K/4**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00113821 DOCUMENT TYPE: Review

**PRODUCT NAMES: Adobe Photoshop 5.0 Macintosh (213756); Image Alchemy (383465); ImageXpress Deep-Bit Filters (735141)**

**TITLE: Product Reviews: Filters , File Translators, and Self-Calibrating...**

**AUTHOR: Rodney, Andrew**

**SOURCE: Photo>Electronic Imaging, v41 n11 p34(4) Nov 1998**

**ISSN: 0146-0153**

**HOME PAGE: <http://www.peimag.com>**

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20001130

...PRODUCT NAMES: 383465); ImageXpress Deep-Bit Filters (

**TITLE:** Product Reviews: Filters , File Translators, and Self-Calibrating.....

...Alchemy, Mitsubishi's SpectraView, LaCie's LaCie Electron 21/108, and ImageXpress' ImageXpress Deep-Bit Filters (DBF) are highlighted in a discussion of **filters** , file translators, and self-calibrating monitors. Among Photoshop 5.0's new features is powerful support for 48-bit files, or for any file with over 8 bits per **color** . When working with high-bit **color** , **color** quality is enhanced, and **colors** are richer and more accurate. The current availability of digital camera and scanners allows users to capture and archive images in 48-bit **color** . Files have to be converted to 8 bits per **color** before output, but this can be done with the Mode menu in Photoshop. ImageXpress DBF is the first collection of Photoshop **filters** particularly designed for high-bit files. Image Alchemy displays and skillfully maneuvers computer image files...

...Five interpolation algorithms are supported, and many algorithms are available for users who want to **dither** files for Internet use. The Image Alchemy PS edition has all the features of Image...

...are displays that provide monitor calibration abilities beyond visual calibration and support for third-party **colorimeters** . Their design, operation, and advantages are described.

20/3,K/5

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00112487 DOCUMENT TYPE: Review

**PRODUCT NAMES:** DeBabelizer 3.0.1 Macintosh (534595)

**TITLE:** Deciphering the Minitower of Babel

**AUTHOR:** Goodman, Ben

**SOURCE:** Computer Shopper, v18 n10 p367(1) Oct 1998

**ISSN:** 0886-0556

**HOME PAGE:** <http://www.computershopper.com>

**RECORD TYPE:** Review

**REVIEW TYPE:** Review

**GRADE:** A

**REVISION DATE:** 20010930

...can also activate multiple operations on each of the files being converted. Operations can include **dithering** , changing size and pixel depth, editing images, correcting **color** , and **filtering** . More complex processing can be scripted, and a single script can apply different processes to...

20/3,K/6

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00108274 DOCUMENT TYPE: Review

PRODUCT NAMES: DeBabelizer Pro 4.5 (534595)

TITLE: DeBabelizer Pro 4.5

AUTHOR: Moody, Nathan Biedny, David

SOURCE: NewMedia, v8 n3 p30(2) Mar 3, 1998

ISSN: 1060-7188

HOME PAGE: <http://www.newmedia.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20031021

...DeBabelizer's tools are often the better choices. For instance, for reducing an image's **color** depth or remapping an image to a new palette, DeBabelizer's extensive palette controls are the best available. Many artists also say that DeBabelizer's **dithering** algorithms generate visually superior results to those of Photoshop, when third-party **filters** are not used. DeBabelizer's scripting and automation are more powerful and reliable than Photoshop's Actions. However, DeBabelizer's reputation is its palette conversion strength. Its **dithering** results are better than Photoshop's, and DeBabelizer's SuperPalette, a unique, dynamic document, stores sets of **colors** used in multiple images. DeBabelizer's scripting and batch processing are easy-to-use and...

...multiple Undo buffer is another welcome feature, but DeBabelizer is not suitable for industrial-strength **color** -correction tasks.

20/3,K/7

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.

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00106849

DOCUMENT TYPE: Review

PRODUCT NAMES: WebVise Totality (689904); Web Razor (689891); HVS WebFocus (662267); Genuine Fractals (687235); Intellihance (619167)

TITLE: Photoshop Plug-In Power

AUTHOR: Hamlin, J Scott

SOURCE: PC Graphics & Video, v7 n1 p36(5) Jan 1998

ISSN: 1060-5282

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20020516

...are still special effects plug-ins. WebVise Totality is an especially useful collection of six **filters** that provide digital watermarking; advanced JPEG and GIF compression engines (with integrated image map creation tools); an optimized **dithering** engine; and a plug-in for creating GIF animations from inside Photoshop. WebVise Totality also has a plug-in for creation of Hybrid Web Safe **Colors**. Razor is a seven plug-in collection of optimized JPEG and GIF export engines. Its...

...Photoshop's powerful selection tool to create selections for the image map. WebFocus, a two- **filter** set, has HVS **ColorGIF** and HVS JPEG, two

excellent GIF and JPEG optimization engines. Both offer more powerful options than provided in WebVise Totality or Web Razor, including complete control over the **color** reduction process. Genuine Fractals compresses images by encoding them into math algorithms, and the very...

...the fact that images become scalable and resolution-neutral. Intellihance and Cytopia's PhotoOptics provide **color** correction tools.

20/3,K/8

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00106285 DOCUMENT TYPE: Review

**PRODUCT NAMES:** Extensis Mask Pro 1.0 (681709); Eye Candy 3.0 (651648); ColorSafe 1.1.1 (687243)

**TITLE:** Best Photoshop Plug-ins

**AUTHOR:** McClelland, Deke

**SOURCE:** Macworld, v15 n2 p98(9) Feb 1998

**ISSN:** 0741-8647

**HOME PAGE:** <http://www.macworld.com>

**RECORD TYPE:** Review

**REVIEW TYPE:** Review

**GRADE:** A

**REVISION DATE:** 20030825

...**PRODUCT NAMES:** 651648); ColorSafe 1.1.1...

...0, Alien Skin Software's Eye Candy 3.0, Flaming Pear Software's Flaming Pear **Filters**, and Boxtop Software's **ColorSafe** 1.1.1. MaskPro adds significantly to Photoshop's already rich masking capabilities. It simplifies the process, however, and adds a great deal of automation. MaskPro approaches masking as a **color** matter, and using eyedroppers, users lift **colors** that appear inside and outside the mask. Eye Candy, formerly called The Black Box, is...

...a little quirky, and not enough space is devoted to the previews, however. Flaming Pear **Filters** includes four innovative **filters**, including Blade 1.5.5, a 3D beveling **filter** that is more flexible and has better rendering than Eye Candy. The Tessellation **filter** can transform an image into a seamless rectangular tile pattern, which is exceptionally useful for building backgrounds; the India **Ink filter halftones** gray-scale images using one of 16 unusual patterns. Lastly, the FeatherGIF **filter** blurs the edges of an image by applying a fading **dither**. Boxtop's **ColorSafe** plug-in is very similar to the company's **ditherBox**, and sports the same interface. **ColorSafe** includes sliders for red, green, and blue, for defining **colors** without having to go to a second box, and offers several custom palettes in addition to the standard 216- **color** one.

20/3,K/9

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00101212 DOCUMENT TYPE: Review



**PRODUCT NAMES:** Soft Proofing (837725)

**TITLE:** New form, old worries with digital proofing

**AUTHOR:** Baard, Mark

**SOURCE:** MacWEEK, v11 n16 p24(3) Apr 21, 1997

**ISSN:** 0892-8118

**HOME PAGE:** <http://www.macweek.com>

**RECORD TYPE:** Review

**REVIEW TYPE:** Product Analysis

**GRADE:** Product Analysis, No Rating

**REVISION DATE:** 20011030

Many products can increase digital **color** -proofing options. Rainbow proofer from Imation and Phaser 480X from Tektronix are two dye sublimation proofers that offer 300-dots per inch (dpi) resolutions and continuous **tone** images that take only 10 to 20 minutes to output, depending on file size. Iris Realist 5015 from Scitex America's Iris Graphics division is an **ink** -jet proofer that provides output similar to that of a dye-sub Imation proofer and also provides good **color** and shorter print times. The Kodak Approval Digital **Color** Proofing System from Eastman Kodak produces 1,800-dpi images on production stock, up to a 200-line **screen** . Kodak's approval size and expensive cost make it more appropriate for service bureaus. Digital proofs, with the exception of **half tones** , still do not measure up to those of Matchprints, the analog standard in the publishing ...

...digital proofers, Radius's Pressview 21 SR monitors feature antiglare coatings and compatibility with many **color** management applications.

**20/3,K/10**

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.

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00099639

**DOCUMENT TYPE:** Review

**PRODUCT NAMES:** Adobe PostScript Display (683442); OpenStep (496278); QuickDraw (371556)

**TITLE:** Display PostScript: New face of the Mac?

**AUTHOR:** Gulick, Rebecca

**SOURCE:** MacWEEK, v11 n4 p1(2) Jan 27, 1997

**ISSN:** 0892-8118

**HOME PAGE:** <http://www.macweek.com>

**RECORD TYPE:** Review

**REVIEW TYPE:** Product Analysis

**GRADE:** Product Analysis, No Rating

**REVISION DATE:** 20000630

...operating system (OS) from the outset, and its primary advantage is its close correlation between **screen** image and printed output. Adobe's Bravo is also being considered as an adjunct to...  
...a coordinate system that can be moved, rotated, and scaled; Bezier curves; a device-neutral **color** model with **dithered colors** ; scalable text that can be rotated; and image operators for raster images that manage scaling...

...All functions supported by PostScript on the printer are supported by Display PostScript on the **screen** . In OpenStep, Display PostScript is the imaging model and the entire windowing system. A NeXT...

**20/3,K/11**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00095078                DOCUMENT TYPE:   Review

**PRODUCT NAMES:   PosterWorks 4.0 Macintosh   (263567)**

**TITLE:   PosterWorks 4.0**

**AUTHOR:   Long, Ben**

**SOURCE:   MacUser,        v12 n9   p55(1) Sep 1996**

**ISSN: 0884-0997**

**HOME PAGE:   http://www.zdnet.com/macuser**

**RECORD TYPE:   Review**

**REVIEW TYPE:   Review**

**GRADE:   A**

**REVISION DATE:   20001130**

...package, gets very good marks overall, especially for its exceptionally good printing controls and powerful **color** correction tools. Users get full control over PostScript Level 1 and 2 printing options, **halftone screens** , and separations; a built-in font downloading utility is provided. Creating a poster is simple...

...size of a layout; positions items on the page; and prints to any monochrome or **color** PostScript-compliant printer, including large-format poster printers. When the layout is set, users import...

**20/3,K/12**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00091933                DOCUMENT TYPE:   Review

**PRODUCT NAMES:   Adobe Acrobat 2.1   (433039)**

**TITLE:   Teaching Acrobat New Tricks**

**AUTHOR:   Soberanis, Pat**

**SOURCE:   Publish,        v11 n4   p60(6) Apr 1996**

**ISSN: 0897-6007**

**HOME PAGE:   http://www.publish.com**

**RECORD TYPE:   Review**

**REVIEW TYPE:   Product Analysis**

**GRADE:   Product Analysis, No Rating**

**REVISION DATE:   20001030**

...because its flexibility could ensure its future use as an imagesetter-ready format. Problems with **color** separation can be avoided by choosing the Separations setting in a page layout application before...

...font that emulates the designed typeface. Other work-arounds are described for stripping of custom **halftone screen** frequency and angle data, and trapping. The following topics are covered in a discussion of...

DESCRIPTORS: Acrobat; **Color** Separation; Desktop Publishing Utilities; File Conversion; Integration Software; Printing & Graphic Arts

20/3,K/13

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00088613 DOCUMENT TYPE: Review

PRODUCT NAMES: CSI PhotoLab (604879); Andromeda Series 3 Screens  
Filter 1.3 (577944)

TITLE: CSI PhotoLab 1.2: Series 3 Screens 1.3

AUTHOR: Claunch, David

SOURCE: Publish, p40(2) Feb 1996

ISSN: 0897-6007

HOME PAGE: <http://www.publish.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20020516

...PRODUCT NAMES: 604879); Andromeda Series 3 Screens Filter 1.3...

TITLE: CSI PhotoLab 1.2: Series 3 Screens 1.3

Cytopia Software's CSI PhotoLab (PhotoLab) and Andromeda Software's Series 3 **Screens** (Series3) 1.3 are plug-in **filters** for Adobe Systems' Adobe Photoshop 2.5 users. PhotoLab has eight **filters**, including two very useful ones, CSI PhotoFilter and CSI Negative. PhotoFilter changes an image's basic **color** cast, using a unique function that seems to put a standard **color** or gelatin **filter** in front of the camera's lens for **color** correction. CSI Negative eases scanning **color** negatives by inverting a slide's **color**; tonal compression is removed, and orange **color** cast is adjusted. The interface is too unintuitive, but the tools are useful for some image editors. Series3 provides fast and easy tools for creating a perfect **screening** pattern and **halftone**, with precise controls. Users manipulate short mezzotints, mezzograms, or intaglio patterns that create an etching...

DESCRIPTORS: Artists; **Color** Matching; **Color** Separation; Desktop Publishing Utilities; Graphics Tools; Image Processing; Printing & Graphic Arts

20/3,K/14

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00081241 DOCUMENT TYPE: Review

PRODUCT NAMES: ScanPrep Pro 2.0.2 (532835)

**TITLE:** Nikon Scantouch reflects well on...:ScanPrepPro 2.0.2 lives up to  
...  
**AUTHOR:** Long, Ben  
**SOURCE:** MacWEEK, v9 n32 p35(3)(p38) Aug 14, 1995  
**ISSN:** 0892-8118  
**HOMEPAGE:** <http://www.macweek.com>

**RECORD TYPE:** Review  
**REVIEW TYPE:** Review  
**GRADE:** A

**REVISION DATE:** 20001130

...menu, and enter in data about the final output parameters. High-end controls for line **screen** and dot gain are provided. Users can also process an existing image. The software will...  
...and adjusting tonal quality. ScanPrep Pro can also open the Photoshop Variations dialog to do **color** corrections. The FineLine/CopyDot feature can be used to scan **half - toned** images and fine line art.

**20/3,K/15**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
(c)2004 Info.Sources Inc. All rts. reserv.

00075118 DOCUMENT TYPE: Review

**PRODUCT NAMES:** QuickDraw GX 1.1 (371548)

**TITLE:** QuickDraw GX 1.1 to speed printing and squash bugs  
**AUTHOR:** Morgenstern, David  
**SOURCE:** MacWEEK, v9 n9 p1(2) Feb 27, 1995  
**ISSN:** 0892-8118  
**HOMEPAGE:** <http://www.macweek.com>

**RECORD TYPE:** Review  
**REVIEW TYPE:** Product Analysis  
**GRADE:** Product Analysis, No Rating

**REVISION DATE:** 19950730

...Manager, 3.8.2, a native Power Mac extension. New application programming interfaces (APIs) for **halftone screening**, EPS, text justification, and pop-up menus are provided; in addition, **ColorSync** 2.0 is supported. Performance could be as much as 100 percent faster when using  
...

**20/3,K/16**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00062147 DOCUMENT TYPE: Review

**PRODUCT NAMES:** OPENprint (494551)

**TITLE:** Going Where No PostScript Went Before  
**AUTHOR:** Schwartz, Deborah  
**SOURCE:** HP Professional, v8 n3 p22(1) Mar 1994  
**ISSN:** 0986-145X

HOMEPAGE: <http://www.hppro.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 19961230

**ColorSoft** 's OPENprint software lets users print PostScript files to non-PostScript printers. OPENprint is used...

...printer hardware, or protect present investments while still utilizing PostScript technology. OPENprint includes an on- **screen** editor, and utilities are included for **color** correction, brightness, **dithering** , scaling, and other image manipulation techniques.

COMPANY NAME: **ColorSoft** Inc...

?

10/3,K/1

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
(c)2004 Info.Sources Inc. All rts. reserv.

00142546 DOCUMENT TYPE: Review

PRODUCT NAMES: Dylux (139696); Sherpa 43 (089052); Apogee Proofer RIP  
(139718)

TITLE: Proofing by Numbers: Digital proofing solutions enter the  
workflow...

AUTHOR: Whitcher, Joann Strashun

SOURCE: Graphic Arts Monthly, v74 n9 p37(4) Sep 2002

ISSN: 1047-9325

HOME PAGE: <http://www.gammag.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20030228

...better quality. Manufacturers have significantly improved digital  
contone proofs by enhancing image quality and uniformity. **Halftone** dots  
are still important in contract proofing in the U.S. printing industry, but  
the their role is getting smaller, says Dan Johansen, product Two years  
ago, 20 **percent** of printers used an Iris or DuPont WaterProof inkjet  
printing device. However, according to Berlin Industries, a proof with  
**halftone** dots is still more widely accepted. Berlin uses Macintoshes, an  
eight-page imagesetter, and a...

...Trendsetter plate setter with Spectrum Proofing option. A Final Proof  
system from Fujifilm makes pigmented **halftone** dot color proofs from roll  
media. A DuPont Dylux with an Agfa Sherpa II imposition...

10/3,K/2

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00119939 DOCUMENT TYPE: Review

PRODUCT NAMES: Adobe Photoshop 5.5 (213756)

TITLE: Photoshop Discovers the Web

AUTHOR: Snell, Jason

SOURCE: Macworld, p74(5) Oct 1999

ISSN: 0741-8647

HOME PAGE: <http://www.macworld.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20001130

...the ability to view and control all colors in a GIF image's palette.  
Three **dithering** effects allow users to employ a larger number of colors,  
and users can set a **dithering percentage** and edit the GIF color  
palette. In ImageReady 2.0, Web-graphics professionals obtain some...

10/3,K/3

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00116362 DOCUMENT TYPE: Review

PRODUCT NAMES: LightWave 3D 6.0 Beta (326364)

TITLE: The Joy of Six

AUTHOR: Tome, Chris

SOURCE: 3D Design magazine, v5 n4 p11(2) Apr 1999

ISSN: 1083-5288

HOME PAGE: <http://www.3d-design.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20000228

...of new enhancements. According to industry statistics, LightWave 3D is in use by over 50 **percent** of all 3D modeling users, thanks in large part to its affordable price and sophisticated...

...a new nonlinear animation editing interface is also another welcome addition. A number of new **dithering** and optimization features allow users to increase system performance, and users can now animate characters...

10/3,K/4

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
(c)2004 Info.Sources Inc. All rts. reserv.

00084107 DOCUMENT TYPE: Review

PRODUCT NAMES: Icefields 2.3 (587699)

TITLE: Icefields 2.3

AUTHOR: Blatner, David Roth, Steve

SOURCE: Macworld, v12 n11 p75(1) Nov 1995

ISSN: 0741-8647

HOME PAGE: <http://www.macworld.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20001130

...calibration tool. The product supports frequency-modulated (FM) screening (stochastic screening), an alternative to standard **half toning**; both techniques improve image details, increase printable color range, and eliminate unwanted moire patterns that...

...color separations. Stochastic screening varies the quantity of dots in an area to proportion tint **percentages**. The technique is recommended for quality printing, flexography, and silk-screening. Icefields' mode of operation...

10/3,K/5

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00079146 DOCUMENT TYPE: Review

PRODUCT NAMES: Prepress (830704)

TITLE: Goodbye Analog Workflows

AUTHOR: Staff

SOURCE: Publishing & Production Executive, v9 n3 p40(3) Apr 1995

ISSN: 1048-3055

HOME PAGE: <http://www.ppe-online.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 19990228

...survey of print producers reveals that many use digital methods for prepress production tasks; 33 **percent** of respondents include digital, high-resolution images with electronic files sent to color separators or service bureaus for final output. In addition, acceptance of **halftone** digital proofs as interim or final proofs has grown, with 36 **percent** of respondents occasionally asking for or receiving Kodak Approval or 3M Digital Matchprint proofs from suppliers, while only 30 **percent** did in 1994. Use of Photo CD images more than doubled over 1994, and use of telecommunications to transmit files will increase by over 100 **percent** (to 18 **percent** ) in 1995. 32 **percent** of publishers average between one and 10 color scans each week, and more than about...

10/3,K/6

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00075118 DOCUMENT TYPE: Review

PRODUCT NAMES: QuickDraw GX 1.1 (371548)

TITLE: QuickDraw GX 1.1 to speed printing and squash bugs

AUTHOR: Morgenstern, David

SOURCE: MacWEEK, v9 n9 p1(2) Feb 27, 1995

ISSN: 0892-8118

HOME PAGE: <http://www.macweek.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 19950730

...Manager, 3.8.2, a native Power Mac extension. New application programming interfaces (APIs) for **halftone** screening, EPS, text justification, and pop-up menus are provided; in addition, ColorSync 2.0 is supported. Performance could be as much as 100 **percent** faster when using PostScript printers, and improved handling of formatting should make printing faster in...



10/3,K/7

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00067029 DOCUMENT TYPE: Review

PRODUCT NAMES: Hyperfax-III (519235); ViewDirector (445096)

TITLE: New Compression Schemes Squeeze Image Files More, Boost Quality

AUTHOR: Mantelman, Lee

SOURCE: Imaging Magazine, v3 n8 p14(11) Aug 1994

ISSN: 1083-2912

HOME PAGE: <http://www.imagingmagazine.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 19980530

...lossless format. Joint Bi-level Imaging Experts Group (JBIG) compression makes quality files about 60 **percent** smaller than Group IV. It works especially well with **dithered** images and for low bit-level gray scale. Fractals (used in Microsoft Encarta) provide smaller...  
?

File 2:INSPEC 1969-2004/Jan W2  
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File 483:Newspaper Abs Daily 1986-2004/Jan 17  
(c) 2004 ProQuest Info&Learning  
File 248:PIRA 1975-2004/Jan W1  
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Set	Items	Description
S1	1596920	(FILTER? OR SCREEN?)
S2	20048	(HALF()TON? OR DITHER? OR ERROR()DIFFUS? OR HALFTON?)
S3	426	S1 AND S2 AND (INPUT OR ORIGINAL) AND (OUTPUT OR PRINT?)
S4	3378929	(TINT? OR SHADE? OR SPOT OR CHERRY()APPLE OR CHERRY OR ROSE OR RED OR BRICK OR GREEN()YELLOW OR MAROON OR TONE OR GRADAT- ION OR HUE OR LIGHT OR DARK)
S5	1410737	(MAGENTA OR CYAN OR RED OR GREEN OR BLUE OR YELLOW OR RGB - OR CMYK )
S6	1819292	PERCENT? OR FRACTION?
S7	3032097	(COLOR? OR COLOUR? OR COLORANT? OR COLOURANT? OR INK? OR - DYE?? OR SHADE?? OR TINT?? OR SPOT OR TONE?? OR GRADATION? OR HUE?? OR CONTRAST???)
S8	750	S1 AND BITMAP?
S9	1867588	(TINT? OR SHADE? OR GRADATION? OR SPOT OR TONE? OR HUE? OR COLOR? OR COLOUR? OR COLOURANT? OR COLORANT?)
S10	395	S2 AND S6
S11	1557563	(COLOR? OR COLOUR? OR COLOURANT? OR TINT? OR TONE? OR SHAD- E? OR GRADATION? OR INK?)
S12	1638457	(COLOR? OR INK? OR COLOUR? OR COLORANT? OR COLOURANT? OR T- INT? OR TONE? OR SHAD??? OR GRADATION?)
S13	254	S12 AND COMBIN? AND S1 AND S2
S14	0	S4 AND S5 AND S6 AND S7 AND S1 AND S2
S15	32419	S4 AND S5 AND S6
S16	6428	S15 AND S7

S17	11	S16 AND S2
S18	3	S17 AND PY=2000:2004
S19	8	S17 NOT S18
S20	5	RD S19 (unique items)
S21	18	S8 AND S9 AND S2
S22	18	S21 NOT S17
S23	13	S22 NOT PY=2000:2004
S24	5	S22 NOT S23
S25	5	RD S24 (unique items)
S26	1557386	S11 AND S12
S27	52060	S26 AND S6
S28	11	S27 AND S3
S29	11	S28 NOT (S21 OR S17)
S30	10	RD S29 (unique items)
S31	0	S16 AND S8
S32	212	S10 AND (S11 OR S12)
S33	23	S32 AND S5
S34	12	S33 NOT (S28 OR S21 OR S17)
S35	9	RD S34 (unique items)

20/3,K/1 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
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6409618 INSPEC Abstract Number: C1999-12-7490-026

**Title: A new method for colour measurements in multicoloured newspaper printing**

Author(s): Verikas, A.; Malmqvist, K.; Bergman, L.

Author Affiliation: Centre for Imaging Sci. & Technol., Halmstad Univ., Sweden

Conference Title: Engineering Benefits from Neural Networks. Proceedings of the International Conference EANN '98 p.189-96

Editor(s): Bulsari, A.B.; Fernandez de Canete, J.; Kallio, S.

Publisher: Syst. Eng. Assoc, Turku, Finland

Publication Date: 1998 Country of Publication: Finland v+408 pp.

ISBN: 951 97868 0 5 Material Identity Number: XX-1999-02837

Conference Title: Engineering Benefits from Neural Networks. Proceedings of the International Conference EANN'98

Conference Sponsor: AB Nonlinear Solutions OY; Syst. Eng. Assoc.; Univ. Malaga

Conference Date: 10-12 June 1998 Conference Location: Gibraltar

Language: English

Subfile: C

Copyright 1999, IEE

**Title: A new method for colour measurements in multicoloured newspaper printing**

Abstract: This paper presents a method for **colour** measurements directly on printed **half - tone** multicoloured pictures. The paper introduces the concept of **colour** impression. By this concept we mean the CMY or **CMYK** vector ( **colour** vector), which lives in the three- or four-dimensional space of printing **inks** . Two factors contribute to values of the vector components, namely, the **percentage** of the area covered by **cyan** , **magenta** , **yellow** and black **inks** (tonal values) and **ink** densities. The **colour** vector expresses integrated information about the tonal values and **ink** densities. Values of the **colour** vector components increase if tonal values or **ink** densities rise and vice versa. If, for some **colour** , the **ink** density and tonal value do not change, the corresponding component of the **colour** vector remains constant. If some reference values of the **colour** vector components are set from a preprint, then the **colour** vector directly shows how much the operator needs to raise or lower the **cyan** , **magenta** , **yellow** and black **ink** densities in order to correct **colours** of the picture being measured. The values of the components are obtained by registering the **RGB** image from the measuring area and then transforming the set of registered **RGB** values to the triplet or quadruple of CMY or **CMYK** values respectively. Algorithms based on artificial neural networks are used for performing the transformation. During the experimental investigations we have found a good correlation between components of the **colour** vector and **ink** densities.

Descriptors: image **colour** analysis...

Identifiers: **colour** measurements...

... **half - tone** multicoloured pictures...

... **colour** impression...

... **CMYK** vector...

... **colour** vector...

...printing inks ; ...

... ink densities...

... RGB values

20/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6253076 INSPEC Abstract Number: A1999-13-0760D-002, B1999-07-6135-003,  
C1999-07-5260B-010

**Title: A new method for colour measurements in graphic arts**

Author(s): Verikas, A.; Malmqvist, K.; Malmqvist, L.; Bergman, L.

Author Affiliation: Centre for Imaging Sci. & Technol., Halmstad Univ.,  
Sweden

Journal: Color Research & Application vol.24, no.3 p.185-96

Publisher: Wiley,

Publication Date: June 1999 Country of Publication: USA

CODEN: CREADU ISSN: 0361-2317

SICI: 0361-2317(199906)24:3L.185:MCMG;1-4

Material Identity Number: C252-1999-003

Language: English

Subfile: A B C

Copyright 1999, IEE

**Title: A new method for colour measurements in graphic arts**

Abstract: Presents a method for **colour** measurements directly on printed **half - tone** multicoloured pictures. The article introduces the concept of **colour** impression. By this concept we mean the CMY or **CMYK** vector ( **colour** vector), which lives in the three- or four-dimensional space of printing **inks** . Two factors contribute to values of the vector components, namely, the **percentage** of the area covered by **cyan** , **magenta** , **yellow** , and black **inks** (tonal values) and **ink** densities. The **colour** vector expresses integrated information about the tonal values and **ink** densities. Values of the **colour** vector components increase if tonal values or **ink** densities rise and vice versa. If for some primary **colour** , the **ink** density and tonal value do not change, the corresponding component of the **colour** vector remains constant. If some reference values of the **colour** vector components are set from a preprint, then, after an appropriate calibration, the **colour** vector directly shows how much the operator needs to raise or lower the **cyan** , **magenta** , **yellow** , and black **ink** densities in order to correct **colours** of the picture being measured. The values of the components are obtained by registering the **RGB** image from the measuring area and then transforming the set of registered **RGB** values to the triplet or quadruple of CMY or **CMYK** values, respectively. Algorithms based on artificial neural networks are used for performing the transformation. During the experimental investigations, we have found a good correlation between components of the **colour** vector.

...Descriptors: **colorimetry** ; ...

...image **colour** analysis

Identifiers: **colour** measurements...

...printed **half - tone** multicoloured pictures...

... **colour** impression...

... **CMYK** vector...

... colour vector...  
...printing inks ; ...  
... cyan ink ; ...  
... magenta ink ; ...  
... yellow ink ; ...  
...black ink ; ...  
... ink densities...  
... colour vector components...  
...primary colour ; ...  
... RGB image...  
...registered RGB values

20/3,K/3 (Item 1 from file: 248)  
DIALOG(R)File 248:PIRA  
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00466777 Pira Acc. Num.: 40011031

**Title: Silver Halide Color Photographic Light -Sensitive Material for Preparing Color Proof and Preparation Method of Color Proof**

Authors: Tosaka Y; Nonaka Y; Ohkawachi S; Sasagawa M; Ishidal H  
Patent Assignee: Konica Corp  
Patent Number: EP 737889 Patent Date: 961016  
Application number: JP 88359 Application Date: 950413  
Publication Year: 1996  
Document Type: Patent  
Language: English

**Title: Silver Halide Color Photographic Light -Sensitive Material for Preparing Color Proof and Preparation Method of Color Proof**

Abstract: A light sensitive silver halide material for the preparation of colour proofs has on a support three layers sensitive to red , green and blue light and one emulsion layer which forms a black image. Part of the halftone image information uses halftone dots of not less than 200x10\*\*-3/inch\*\*2 with a dot percentage of 40%.

Descriptors: Colour photography - Materials...

Section Headings: COLOUR PHOTOGRAPHY - GENERAL (6059); PHOTOMECHANICAL PROCESSES (6040)

20/3,K/4 (Item 2 from file: 248)  
DIALOG(R)File 248:PIRA  
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00421588 Pira Acc. Num.: 40002406

**Title: THE COLOUR BETWEEN THE DOTS**

Authors: Engeldrum P G  
Source: J. Imaging Sci. Technol. vol. 38, no. 6, 1994, pp 545-551  
ISSN: 8750-9237  
Publication Year: 1994

Document Type: Journal Article  
Language: English

**Title: THE COLOUR BETWEEN THE DOTS**

Abstract: The effective tristimulus value (TSV) of a **half - tone coloured** printed area is a function of the **fractional** area of the paper actually covered by the printed dot. It has been shown that...

... TSV. This observation has been used to compute the X, Y and Z coordinates for **cyan** , **magenta** and **yellow half - tone** patches. 20 refs.

Descriptors: Photomechanical processes - **Colour**

**20/3,K/5 (Item 3 from file: 248)**  
DIALOG(R)File 248:PIRA  
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00347854 Pira Acc. Num.: 10288460 Pira Abstract Numbers: 08-93-PT01739

**Title: A PROPOSAL FOR STANDARDIZATION OF OFFSET PROCESS PRINTING COLORS**

Authors: Isozumi H; Felix Brunner

Source: J. Jpn Soc. Col. Mater. vol. 65, no. 12, Dec. 1992, pp 771-774

ISSN: 0010-180X

Publication Year: 1992

Document Type: Journal Article

Language: Japanese

**Title: A PROPOSAL FOR STANDARDIZATION OF OFFSET PROCESS PRINTING COLORS**

Abstract: The offset process printing industry seeks to achieve uniformity of **colours** obtained from monitors proof prints and conventional printed matter. A survey among the process **ink** manufacturers has shown a need for **hue** angle standardisation. Printing conditions with beta intensity of 1.40 **yellow** , 1.50 **red** , 1.60 **blue** and 1.80 black with 17% dot gain (50% **halftone** ) as proposed by Felix Brunner have been adopted by Dainippon **Ink** and Chemical Co. Experiments using DIC Spacecolor Group G process **inks** printed on Mitsubishi art paper of 157gsm were performed. Dot **percents** of Y,R,B and black were plotted against L, a and b coordinate values...

Company Names: DAINIPPON **INK** AND CHEMICALS INC.

...Descriptors: **COLOUR** ; ...

... **HALFTONE** ; ...

... **HUE** ANGLE...

... **INK** ; ...

... **INK** MANUFACTURE

Section Headings: **Inks** , **Inking** and Drying Systems (8410); **Ink Colour** Matching (8412)

25/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

7717728 INSPEC Abstract Number: B2003-10-6135-073, C2003-10-1250M-015

**Title: Memory efficient error diffusion**

Author(s): Ti-chiun Chang; Allebach, J.P.

Author Affiliation: Sch. of Electr. & Comput. Eng., Purdue Univ., West Lafayette, IN, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.5008 p.525-36

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: 2003 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(2003)5008L:525:MEED;1-4

Material Identity Number: C574-2003-146

U.S. Copyright Clearance Center Code: 0277-786X/03/\$15.00

Conference Title: Color Imaging VIII: Processing, Hardcopy, and Applications

Conference Sponsor: SPIE; Soc. Imaging Sci. & Technol

Conference Date: 21-24 Jan. 2003 Conference Location: Santa Clara, CA, USA

Language: English

Subfile: B C

Copyright 2003, IEE

**Title: Memory efficient error diffusion**

Abstract: Li and Allebach proposed (2002) parameter-trainable tone dependent error diffusion (TDED) which yields outstanding halftone quality among error diffusion based algorithms. In TDED, the tone dependent weights and thresholds as well as a halftone bitmap for threshold modulation are implemented as look-up tables (LUTs) which consume on-chip memory...

... the memory requirement by using only a few constants, rather than full LUTs, and generates halftones whose quality is nearly indistinguishable from that of standard TDED. Secondly, we propose a block...

... algorithm to process any input image block-by-block without yielding block-boundary artifacts. Special filters are designed and optimized for the block diagonals so that the resulting halftone quality is comparable to that of standard TDED.

Identifiers: memory efficient error diffusion ; ...

...parameter-trainable tone dependent error diffusion ; ...

... halftone quality...

...special filters

25/3,K/2 (Item 1 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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06394253 E.I. No: EIP03227482973

**Title: Memory efficient error diffusion**

Author: Chang, Ti-Chiun; Allebach, Jan P.

Corporate Source: Sch. of Elec./Computer Engineering Purdue University, West Lafayette, IN 47907, United States



Conference Title: Color Imaging VIII: Processing, Hardcopy, and Applications

Conference Location: Santa Clara, CA, United States Conference Date: 20030121-20030124

E.I. Conference No.: 61048

Source: Proceedings of SPIE - The International Society for Optical Engineering v 5008 2003. p 525-536

Publication Year: 2003

CODEN: PSISDG ISSN: 0277-786X

Language: English

**Title: Memory efficient error diffusion**

Abstract: Li and Allebach recently proposed parameter-trainable **tone dependent error diffusion** (TDED) which yields outstanding **halftone** quality among **error diffusion** based algorithms. In TDED, the **tone dependent weights and thresholds** as well as a **halftone bitmap** for threshold modulation are implemented as look-up tables (LUTs) which consume on-chip memory...

...the memory requirement by using only a few constants, rather than full LUTs, and generates **halftones** whose quality is nearly indistinguishable from that of standard TDED. Secondly, we propose a block...

...algorithm to process any input image block-by-block without yielding block-boundary artifacts. Special **filters** are designed and optimized for the block diagonals so that the resulting **halftone** quality is comparable to that of standard TDED. 30 Refs.

Identifiers: **Halftoning** processes

25/3,K/3 (Item 1 from file: 248)

DIALOG(R)File 248:PIRA

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00645524 Pira Acc. Num.: 20235337

**Title: BlackMagic: new proofing software from Australia**

Authors: Anon

Source: N Z Printer Mag. Aug. 2003, p. 44

Publication Year: 2003

Document Type: Journal Article

Language: English

Abstract: Serendipity, Sydney, Australia, has developed BlackMagic proofing-software, a high speed **colour** processing system that automatically polls imagesetter and platesetter RIPS for complete ripped files. Proofs produced by BlackMagic clearly show the reproduction of the original high resolution **screened bitmap** dots generated by the **screening** rips. Four different methods can be used for de- **screening** : Real Dot Technology (RDT), Smooth 1, Smooth 2 or Fast. SuperCell **Halftone**

**Screening** enables CT/LW based formats to be **screened** up to 200lpi with **spot colours** . An impressive range of tools includes the new Paper Profiling module combined with the Ink limiting module, providing smoother output and better **colour** . Also included is an online update linearisation process. The system is fully compatible with ICC profiles, has a built in ICC Tweaker and dot gain controls for process and special/ **spot colours** . An intelligent page set-up pools facility enables several printers to be sequentially utilised. The...

25/3,K/4 (Item 2 from file: 248)

DIALOG(R)File 248:PIRA  
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00632777 Pira Acc. Num.: 20224779

**Title:** Colour management and raster information retention in a proof:  
proofing for ink jet printers

**Authors:** Freyer K-D

**Source:** Druckspiegel vol. 58, no. 1, Jan. 2003, pp 20-22

**ISSN:** 0012-6500

**Publication Year:** 2003

**Document Type:** Journal Article

**Language:** German

**Title:** Colour management and raster information retention in a proof:  
proofing for ink jet printers

...Abstract: drop on demand (DOD) technology are widely used. It is important to check how well colour reproduction, the original **bitmap**, and proof **bitmap** are in agreement. Digital laser raster proofing systems offer accurate, but expensive true colour rendering, but analogue **halftone** proofs continue to be accepted to avoid high investment costs. There are now several ways...

...derastering, and are not completely satisfactory. It is however possible to make a workable "original **bitmap**". GMG has devised its Dot-Proof method to create a proof **bitmap** by separating **bitmap** data files into two virtual data files. Here one stores the raster information, and the other is derastered and used for colour matching. A further process reunites these two files for output over an ink jet printer. **Screenproof** from Best, Germany, records the original raster **bitmap** which allows for colour management. It is now possible to prepare a colour matched and print conformed raster simulation for ink jet printer output for screen widths up to 70. Best results are obtained from high resolution printers. Some large and...

**Descriptors:** COLOUR MATCHING...

25/3,K/5 (Item 3 from file: 248)

DIALOG(R)File 248:PIRA  
(c) 2004 Pira International. All rts. reserv.

00578119 Pira Acc. Num.: 20177574

**Title:** Image resolution: when DPI isn't always DPI

**Authors:** Bardhan R

**Source:** GATFWorld vol. 12, no. 4, July-Aug. 2000, pp 30-32

**Publication Year:** 2000

**Document Type:** Journal Article

**Language:** English

...Abstract: stored per unit area, and measures the fineness of detail output. Lpi, or a line **screen**, is the number of **halftone** dots printed, identical down and across, in a linear inch, simulating a continuous-tone image. Dpi dots, or spots, generated by the output laser, are smaller, many comprising a printing dot. Dpi measures the smallest **spot** an output device can make. The number of printing dots an imagesetter produces, and how...

... make a dot depends on the input device's resolution, and the output's line **screen**. High-resolution output, increasing spots-per-dot, masks **spot** jagged edges. Pixels, the smallest picture samples handled by a digital system, comprise a **bitmap** image captured electronically, each

pixel being composed of many bits of information, bit depth or...  
...Descriptors: **HALFTONE** ; ...

... **SPOT**  
?

30/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

01834774 INSPEC Abstract Number: B82021372

Title: A survey of electronic techniques for pictorial image reproduction

Author(s): Stoffel, J.C.; Moreland, J.F.

Author Affiliation: Wilson Center for Technol., Xerox Corp., Webster, NY, USA

Journal: IEEE Transactions on Communications vol.COM-29, no.12 p. 1898-925

Publication Date: Dec. 1981 Country of Publication: USA

CODEN: IECMBT ISSN: 0090-6778

Language: English

Subfile: B

...Abstract: is a tradeoff study of image processing algorithms that can be used to transform continuous **tone** and **halftone** pictorial image **input** into spatially encoded representations compatible with binary **output** processes. A large **percentage** of the electronic **output** marking processes utilize a binary mode of operation. The history and rationale for this are...

... defined. Next, a set of algorithms including fixed and adaptive thresholding, orthographic pictorial fonts, electronic **screening**, ordered **dither** and **error diffusion** are defined and evaluated relative to their ability to reproduce continuous **tone input**. Finally, these algorithms, along with random nucleated **halftoning**, the alias reducing image enhancement system (ARIES), and a new algorithm, selective **halftone** rescreening (SHARE), are defined and evaluated as to their ability to reproduce **halftone** pictorial **input**.

...Identifiers: continuous **tone**; ...

... **halftone** pictorial image **input**; ...

...electronic **output** marking processes...

...electronic **screening**; ...

...ordered **dither**; ...

... **error diffusion**; ...

...random nucleated **halftoning**; ...

...selective **halftone** rescreening

30/3,K/2 (Item 1 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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05945247 E.I. No: EIP01476742246

Title: Principle of color reproduction in printing by the method of proportional tone compression: The process system by numerical calculation

Author: Nonaka, M.; Numakura, T.; Kitazawa, S.

Corporate Source: Faculty of Engineering Tokyo Institute of Polytechnics, Tokyo, Japan

Conference Title: TAGA'S 53rd Annual Technical Conference

Conference Location: San Diego, CA, United States Conference Date:  
20010506-20010509

E.I. Conference No.: 58714

Source: Proceedings of the Technical Association of the Graphic Arts,  
TAGA 2001. p 408-425

Publication Year: 2001

Language: English

**Title: Principle of color reproduction in printing by the method of proportional tone compression: The process system by numerical calculation**

**Abstract:** We already mentioned that the principle of color reproduction by superimposing halftone dots in the printing process was essentially a subtractive mixture, and that the correction of optical dot gain was...

...M, Y and Bk dot areas converted from the image signal harvested from a continuous tone color original by a scanner using proportional tone compression (Numakura-Yamatoya equation). The Numakura-Yamatoya equation is based on the Yule-Nielsen equation...

...center dot D//s in the Numakura-Yamatoya equation. The coefficient K works as a tone compressive function in the case of using ideal printing inks that do not have extra light absorbance. We fixed on the dot area of black...

...C, M, Y dot areas so as to equalize the quantity of light through a color filter (R, G, B). These equations are constructed with the Pollak equation containing our corrective terms...

...to solve simultaneous quadratic equations with three unknowns by using successive approximation. This conversion contains color balance, dot gain (optical and mechanical), GCR and masking (color correction). So far these processes have been dealt with empirically. While LUT is one of the empirical methods, the proposed treatment is to construct a numerical model of color images made up of superimposed dot areas, and fractional dot areas required are calculated numerically. 6 Refs.

**Descriptors:** Color printing ; Optical data processing; Ink ; Light absorption; Color image processing; Scanning; Optical character recognition; Numerical analysis

**Identifiers:** Color reproduction; Proportional tone compressions

30/3,K/3 (Item 2 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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00556666 E.I. Monthly No: EI7608052148 E.I. Yearly No: EI76024708

**Title: PREAMPLIFIER FOR THE READOUT SIGNAL OF A MEMORY CATHODE-RAY TUBE.**

**Author:** Grishin, V. G.; Starodubtsev, V. F.

**Corporate Source:** Inst of Control (Autom & Remote Control) Probl, Moscow, USSR

**Source:** Instruments and Experimental Techniques (English Translation of Pribyry I Tekhnika Eksperimenta) v 18 n 4 pt 1 Jul-Aug 1975 p 1136-1137

**Publication Year:** 1975

**CODEN:** INETAK **ISSN:** 0020-4412

**Language:** ENGLISH

**...Abstract:** system the memorization of once-formed dynamic spectrograms for purposes of subsequent reproduction on the screen of a raster display is accomplished using a half - tone memory cathode-raytube (mcrt) with

electrical **input** and **output** . However, the intrinsic noise of the video path, especially at the higher frequencies, limit the...

...the isolated interval and the accuracy with which it is chosen to tenths of a **percent** of the maximum signal amplitude. The circuit of a preamplifier for the **output** signal of a **half - tone** mcrt with grid control is described. The **input** stage of the amplifier is implemented using MOS transistors connected according to a circuit with...

30/3,K/4 (Item 1 from file: 94)  
DIALOG(R)File 94:JICST-EPlus  
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05278692 JICST ACCESSION NUMBER: 02A0835058 FILE SEGMENT: JICST-E  
**Principle of Color Reproduction in Printing by the Method of Proportional Tone Compression. Part 1: The Plate Making System by Numerical Calculation.**  
NONAKA MICHITAKA (1); ISHIKAWA TAKUMA (1); NUMAKURA TAKASHI (2); KITAZAWA SUSUMU (2); IMAI TOSHINORI (3)  
(1) Tokyo Inst. of Polytech. Fac. of Eng.; (2) Yamatoya & Co., Ltd., JPN ; (3) Beniyaofusettoo  
Nippon Insatsu Gakkaishi(Bulletin of the Japanese Society of Printing Science and Technology), 2002, VOL.39,NO.4, PAGE.254-266, FIG.6, TBL.2, REF.6  
JOURNAL NUMBER: G0233ABD ISSN NO: 0914-3319  
UNIVERSAL DECIMAL CLASSIFICATION: 774/777  
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan  
DOCUMENT TYPE: Journal  
ARTICLE TYPE: Original paper  
MEDIA TYPE: Printed Publication

**Principle of Color Reproduction in Printing by the Method of Proportional Tone Compression. Part 1: The Plate Making System by Numerical Calculation.**

ABSTRACT: The principle of **color** reproduction by the superimposition of **halftone** dots in **printing** process being essentially subtractive mixture, the necessity of the correction of optical dot gain, and the corrective term of optical dot gain into Pollak equation concerning C, M, Y, Bk **halftone** dots imposed on paper were already introduced by Nonaka, et al., in 1999. This paper presents the numerical **output** method of the C, M, Y and Bk dot areas converted from the image signal R, G, B harvested from continuous **tone color original** by scanner using proportional **tone** compression. The dot area of black by gray component replacement (GCR) was fixed and other C, M, Y dot areas were determined so that the optical reflectance through **color filter** (R, G, B) was to be equalized with the optical reflectance by prepositional **tone** compression. The dot areas were determined by the simultaneous quadratic equations with three unknowns (c...

...of Newton-Raphson. The conversion contained gray balance, optical and mechanical dot gain, GCR, masking ( **color** correction) and the effect of paper used. The process work has been dealt with empirically...

...methods, the proposed treatment presented in this paper is to construct the numerical model of **color** image made up of dot areas superimposed, and by this treatment the **fractions** of dot areas required are calculated numerically. (author abst.)

DESCRIPTORS: **color** reproduction...

... halftone dot...  
...process( printing ); ...  
... color mixing...  
... halftone image...  
... color image  
...BROADER DESCRIPTORS: colorimetry ;

30/3,K/5 (Item 1 from file: 95)  
DIALOG(R)File 95:TEME-Technology & Management  
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01216465 T98076184124

**The relative analysis between the tonal scale of screen printing sketch and the density of computer color separator**

(Vergleich zwischen der Farbtonskala eines Filmdruckentwurfs und der Farbdarstellung des Computer-Farbseparators)

Yu, A-C

Taiwan Textile Federation, ROC

The 4th Asian Textile Conference, Safe Comfortable and Ecological Textiles for the 21st Century's needs, The Chinese Inst. of Textile Engineers and the Federation of the Asian Professional Textile Association, Taiwan, ROC, 1997, Jun, 24. - 26.1997

Document type: Conference paper Language: English

Record type: Abstract

**The relative analysis between the tonal scale of screen printing sketch and the density of computer color separator**

ABSTRACT:

The density of halftone trace in screen printing can be obtained by the skill of the exposure and development in the traditional trace of photography. By the method of computer halftone color separation, one can directly input the original sketch to adjust the density of continuous tone, and finish final sketch by so-called 'screen -setting' in the computer software. But there has been no research for computer color separation system in printing after it was introduced into Taiwan market. This paper is emphasizing on the research of computer halftone color separation method between the density percentage of color separation and gamma-curve of hue. The result shows: In the original sketch, the simpler hue is, the clearer is the tonal scale level. Then the Basic Density Range (BDR) of computer color separation will cover wider area, and the density percentage will develop to the highest level. On the contrary, if the area coverage of BDR is narrower according to the limitation of tonal scale in original sketch, then the density percentage must be reduced to control all the density percentage of color separation in the same pattern group for reaching the effective screen printing. By this way, the design pattern on the printing product will be more sure to have the similar continuous tone to the one of original sketch.

DESCRIPTORS: FILM SCREEN PRINTING ; COLOUR TINT ; COLOR DATA  
PROCESSING; COMPUTER AIDED MANUFACTURING; PROGRAM PACKAGE; COLORIMETRY --

...

...CHROMATICS; COLOR SATURATION

30/3,K/6 (Item 1 from file: 248)  
DIALOG(R)File 248:PIRA  
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00389711 Pira Acc. Num.: 20013054  
**Title: SCANNING RESOLUTION AND THE QUALITY FACTOR**  
Authors: Cluckers F  
Source: Nouv. Gr. vol. 44, no. 11, May 1994, p. 15  
ISSN: 0029-4926  
Publication Year: 1994  
Document Type: Journal Article  
Language: French

...Abstract: relationship between the number of pixels recognised during scanning and the potential quality of the **output**. Specification of the **printed halftones** is in terms of a **screen** ruling which is determined by the **printing** process and type of press used. There is also a correlation between the pixels scanned and the desired **screen** frequency for the **halftone** film separations. The best **colour** quality is achieved with two **input** pixels for each **output screen** dot. This 2:1 ratio (quality factor) demands scanning at 266 pixels/inch for a **screen** ruling of 133 lines/inch. To ascertain the optimum scanning resolution it is necessary to know the quality factor, **output** format in **percentage** terms in relation to the **original** and the required **screen** ruling. (Short article)

Descriptors: **COLOUR REPRODUCTION...**  
Section Headings: **Colour Scanners (8237)**

30/3,K/7 (Item 2 from file: 248)  
DIALOG(R)File 248:PIRA  
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00341289 Pira Acc. Num.: 10287498 Pira Abstract Numbers: 08-93-PT00881  
**Title: BEYOND THE FOUR- COLOR BARRIER**  
Authors: Reilly K  
Source: Publ. Prod. Exec. vol. 6, no. 10, Nov. 1992, pp 12, 15-16  
ISSN: 1048-3055  
Publication Year: 1992  
Document Type: Journal Article  
Language: English

**Title: BEYOND THE FOUR- COLOR BARRIER**

Abstract: Conventional offset **printing** with **halftone screens** only reproduces a **fraction** of a **colour** image, four- **colour** process **printing** only providing about 5,000 **colours**. Fidelity to the **original** is paramount for fine arts reproductions, museum catalogues, textile displays, and point-of-purchase. Collotype, an old continuous- **tone** process, offering superb **colours** and detail, is **screenless**, with 1,250lpi resolution. It has evolved into continuous- **tone screenless** lithography, using pre-sensitised, positive, photopolymer plates with electrochemically grained surfaces. Using the randomly patterned grain instead of dots, many overprinted **colours** are possible without moire. Black Box Collotype, Chicago, USA, uses ACT, advanced continuous- **tone**, applying the grain pattern to film during scanning and separations. Numerous **colours** are **printed**, each separated twice, giving more highlight control, greater **shadow** range, brighter **colours**, and more **tone gradations**. Using single-unit presses and dry trapping, 25,500 **colours** are available.



...Descriptors: COLOUR ; ...  
...CONTINUOUS TONE ; ...  
...FOUR- COLOUR ; ...  
... HALFTONE ; ...  
... PRINTING ; ...  
...PROCESS PRINTING ; ...  
... SCREEN - HALFTONE ; ...  
... SCREENLESS ; ...  
... SHADOW ; ...  
... TONE ;

30/3,K/8 (Item 3 from file: 248)  
DIALOG(R)File 248:PIRA  
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00134370 Pira Acc. Num.: 6427500 Pira Abstract Numbers: 02-85-02132

Title: 'UNIVERSAL FILM' COULD INCREASE USE OF GRAVURE

Authors: Anon  
Source: Folio June 1985, pp 28-29  
ISSN: 0046-4333  
Publication Year: 1985  
Document Type: Journal Article  
Language: English

...Abstract: GTA) convention in Chicago that a task force has been formed to develop a universal **input** film for use in both web offset and **halftone** gravure **printing**. The task force includes representatives of publishers, ad agencies, **printers** and **ink** manufacturers and will report its recommendations by September 1 1985. There are three major challenges in developing universal film-finding gravure **inks** which have **colour** hues similar to 'Specifications for Web Offset Publications' **ink** hues; developing **screen** angles and rules similar to those used by offset **printers** and gaining the ability to **print** as small a dot as is possible with offset **printing**. Recently **printers** have successfully tested specially formulated gravure **inks** that match SWOP hues and the only main obstacle now is that gravure presses are not capable of **printing** the minimum one **percent** or two **percent** dot that offset presses can **print**.

...Descriptors: COLOUR ; ...  
... HALFTONE ; ...  
... INK ; ...  
... INPUT ; ...  
... PRINT ; ...  
... PRINTER ; ...  
... PRINTING ;

30/3,K/9 (Item 4 from file: 248)  
DIALOG(R)File 248:PIRA  
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00105525 Pira Acc. Num.: 5120887 Pira Abstract Numbers: 02-83-01346  
**Title: DIGISCAN DIGITIZES DIRECT ILLUSTRATIONS AND LINE DRAWINGS. A DANISH DEVELOPMENT IN ELECTRONIC REPRODUCTION**  
Authors: Anon  
Source: Export Polygraph. Int. vol. 31, no. 2, Mar./Apr. 1983, pp 43-44  
ISSN: 0343-5199  
Publication Year: 1983  
Document Type: Journal Article  
Language: Spanish

...Abstract: providing coincident imaging of black-and-white photographs and text with a selection of four **halftone** screens with correct angles for exposure in a directly linked photosetting machine. A drum scanner drive...

... or another drum 40 x 48cm. Illustration size may be varied between 20 and 300 **percent** of the **original**. The system is reported to reproduce 256 different **shades** of grey and it incorporates a densitometer which automatically provides suitable correctons. All size data...

...which in future is expected to take it as far as the exposure of the **printing** plate.

...Descriptors: **HALFTONE** ; ...

... **PRINTING** ;

30/3,K/10 (Item 5 from file: 248)  
DIALOG(R)File 248:PIRA  
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00023204 Pira Acc. Num.: 1722113 Pira Abstract Numbers: 02-77-02113  
**Title: GENERAL PRINCIPLES IN THE DIGITAL PROCESSING OF ONE- COLOUR PICTURES IN PRINTING TECHNOLOGY**  
Authors: Kautto H  
Source: GR. ARTS FINL. vol 6 no 1 Aug 1977 pp 16-23  
Publication Year: 1977  
Document Type: Journal Article  
Language: unspecified

**Title: GENERAL PRINCIPLES IN THE DIGITAL PROCESSING OF ONE- COLOUR PICTURES IN PRINTING TECHNOLOGY**

Abstract: In the picture reproduction processing system continuous **tone** pictures and line drawings are processed separately. When global and local **tone** rendering - from the density of the **original** to that of the **print**, and the **tone** rendering in a given **printing** process, from the calculated **screen** dot **percentage** to the density of the **print** - are known, the form of the compression curve can be determined, and the darkness or...

... be avoided, and local contrasts are enhanced in order to maintain the details in the **printing** process. The picture can be retouched by smoothing, i.e. by reducing the noise, and...

... a direct carryover from one working stage to another and, further, that the most suitable **tone** rendering, correction, retouching, and enhancing method can be found experimentally.

...Descriptors: **HALFTONE** ; ...

...ONE- COLOUR ; ...

... PRINT ; ...

... PRINTING ; ...

... SCREEN ; ...

... TONE

?

35/3,K/1 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
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6750283 INSPEC Abstract Number: C2000-12-3350L-001

**Title: Neural networks based colour measuring for process monitoring and control in multicoloured newspaper printing**

Author(s): Verikas, A.; Malmqvist, K.; Bergman, L.

Author Affiliation: Intelligent Syst. Lab., Halstad Univ., Sweden

Journal: Neural Computing & Applications vol.9, no.3 p.227-42

Publisher: Springer-Verlag,

Publication Date: 2000 Country of Publication: UK

CODEN: NCAPF5 ISSN: 0941-0643

SICI: 0941-0643(2000)9:3L:227:NNBC;1-D

Material Identity Number: D481-2000-004

U.S. Copyright Clearance Center Code: 0941-0643/2000/\$2.00+0.20

Language: English

Subfile: C

Copyright 2000, IEE

**Title: Neural networks based colour measuring for process monitoring and control in multicoloured newspaper printing**

Abstract: This paper presents a neural networks based method and a system for **colour** measurements on printed **halftone** multicoloured pictures and **halftone** multicoloured bars in newspapers. The measured values, called a **colour** vector, are used by the operator controlling the printing process to make appropriate **ink** feed adjustments to compensate for **colour** deviations of the picture being measured from the desired print. By the **colour** vector concept, we mean the CMY or **CMYK** (**cyan** , **magenta** , **yellow** , and black) vector which lives in the three-or four-dimensional space of printing **inks** . Two factors contribute to values of the vector components, namely the **percentage** of the area covered by **cyan** , **magenta** , **yellow** and black **inks** (tonal values) and **ink** densities. Values of the **colour** vector components increase if tonal values or **ink** densities rise, and vice versa. If some reference values of the **colour** vector components are set from a desired print, then after an appropriate calibration, the **colour** vector measured on an actual **halftone** multicoloured area directly shows how much the operator needs to raise or lower the **cyan** , **magenta** , **yellow** and black **ink** densities to compensate for **colour** deviation from the desired print. The 18 months experience of the use of the system...

... shop witnesses its usefulness through the improved quality of multicoloured pictures, the reduced consumption of **inks** and therefore, less severe problems of smearing and printing through.

Descriptors: image **colour** analysis...

Identifiers: **colour** measuring...

... **colour** measurements...

...printed **halftone** multicoloured pictures...

... **halftone** multicoloured bars...

... **ink** feed adjustments...

... **colour** vector components

35/3,K/2 (Item 1 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)  
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04112109 E.I. No: EIP95032624176

**Title:** Color **between the dots**

**Author:** Engeldrum, Peter G.

**Corporate Source:** Imcotek, Winchester, MA, USA

**Source:** Journal of Imaging Science and Technology v 38 n 6 Nov-Dec 1994.  
p 545-551

**Publication Year:** 1994

**CODEN:** JIMTEG **ISSN:** 1062-3701

**Language:** English

**Title:** Color **between the dots**

**Abstract:** Reflected models of **halftone** images generally are not satisfactory predictors of average reflectance or tristimulus values (TSVs), even when used with the Yule-Hielsen n-factor. CIE **colorimetric** measurements of **halftone** dots and the paper between the dots for **cyan**, **magenta**, and **yellow** wax thermal transfer **halftone** images, showed that the CIE tristimulus values of the dots and the paper are a function of the printed dot **fractional** area. The dependence of dot and paper TSVs on area was then empirically modeled by...

**Descriptors:** **Colorimetry**; **Colorimeters**; Image processing;  
Mathematical models; Monochromators; **Color**; Reflectometers

**Identifiers:** **Halftone** images; Reflectance models; Tristimulus values;  
Yule Nielsen n factor; Dots; **Cyan**; **Magenta**; Murray Davis equation;  
Neugebauer equation

35/3,K/3 (Item 1 from file: 94)

DIALOG(R)File 94: JICST-EPlus

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01756481 JICST ACCESSION NUMBER: 93A0522357 FILE SEGMENT: JICST-E

**The Possibility of Representation of Specific Color Using Halftones of Process Ink . (Part 1).**

MOGI MASAO (1); SENO YASUHIRO (1); KURAMOTO TAKASHI (1); UTSUDA TETSUJI (1)  
(1) Toppan Printing Co., Ltd., Technical Res. Inst.

Nippon Insatsu Gakkaishi(Bulletin of the Japanese Society of Printing  
Science and Technology), 1993, VOL.30,NO.2, PAGE.118-123, FIG.11,  
TBL.2, REF.5

**JOURNAL NUMBER:** G0233ABD **ISSN NO:** 0914-3319

**UNIVERSAL DECIMAL CLASSIFICATION:** 655.1

**LANGUAGE:** Japanese **COUNTRY OF PUBLICATION:** Japan

**DOCUMENT TYPE:** Journal

**ARTICLE TYPE:** Original paper

**MEDIA TYPE:** Printed Publication

**The Possibility of Representation of Specific Color Using Halftones of Process Ink . (Part 1).**

**ABSTRACT:** In common practice for printing process specific **color** patches are used to decide the printing **color**. A **color** patch selected by a designer is separated to process **color** by a prepress worker's judgment. And when the **color** is judged unreproducible with process **ink**, the **color** is made with some **inks** mixing. Prepress workers must use their own judgement to determine the **halftone** combination that best matches to the designated **color**. If the **color** actually printed is unmatched what the designer wants, it is retouched by repetitive **color** matching in prepress and proof operations. This repetition causes prepress process complicated. In order to avoid the

above problems, we have been studying the possibility of representation of those specific **colors** using **halftones** of process **ink** . Recently, we succeed to apply the following two judgments using "a parameter derived from Optical Density". 1. Judgment of a special **color** can be represented using the **halftones** of process **ink** . 2. Determination of the dot **percentages** of **yellow** . **magenta** and **cyan** . As a result. we found out that this method of utilizing "a parameter derived from...

...DESCRIPTORS: **color** reproducibility...

... **halftone** dot

35/3,K/4 (Item 2 from file: 94)  
DIALOG(R)File 94:JICST-EPlus  
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00435427 JICST ACCESSION NUMBER: 87A0315530 FILE SEGMENT: JICST-E

Color correction for the digital color printer.

ITOH TAKANORI (1)

(1) Riko Gazogiken

Denshi Shashin Gakkaishi(Electrophotography), 1987, VOL.26,NO.2,

PAGE.100-106, FIG.3, TBL.7, REF.4

JOURNAL NUMBER: G0323ABB ISSN NO: 0387-916X

UNIVERSAL DECIMAL CLASSIFICATION: 772/773 771.3/.4

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

Color correction for the digital color printer.

ABSTRACT: The Neugebauer equations are well known to figure out the **color** reproduction value of printed materials. These equations are supposed to be theoretically applied to the **color** reproduction of the RICOH digital **color** printer output. However, since these equations were very complicated to solve, we used the approximate solutions for **color** correction process instead. We handled reflectances as input and **fractional** dot areas as output in the **color** correction process. In this case, the approximate value of **cyan** and **magenta** was very accurate and close to the targeted value, however, the value of **yellow** was not acceptable. We resolved the Neugebauer equations concerning **yellow** by using approximate value of **cyan** and **magenta** . As a result, the value of **yellow** was acceptable as well as **cyan** and **magenta** . In case of handling original densities as input and handling either **toner** densities or **fractional** dot areas as output, the **color** correction process was relatively successful by using the approximate value of **cyan** , **magenta** and **yellow** . Therefore, it was shown that the **color** correction process like conventional one could be applied even to the digital **color** printer.(author abst.)

DESCRIPTORS: **color** reproduction...

... **color** printer...

... **toner** ; ...

... **color** ; ...

... **halftone** dot

35/3,K/5 (Item 1 from file: 248)  
DIALOG(R) File 248:PIRA  
(c) 2004 Pira International. All rts. reserv.

00607276 Pira Acc. Num.: 20203372

**Title: Using grey balance to maximise the accuracy of your colours**

Authors: Williams A  
Source: Newspaper. Tech. Nov. 2001, pp 10-11  
ISSN: 0019-333X  
Publication Year: 2001  
Document Type: Journal Article  
Language: English

**Title: Using grey balance to maximise the accuracy of your colours**

Abstract: There are two stages involved in the International Newspaper Color Quality Club (INCQC) 2002-2004 evaluation of grey balance measurement techniques. These are: evaluation of...

...IT8.7/2 target, and printing of three of the 14 patches of a digital colour test strip in addition to standard images. The key facts about grey balance cover: the solid cyan, the requirement for unequal percent dot area values of cyan, magenta and yellow to be needed to produce a neutral halftone grey, grey balance in a picture representing all other colours seen as relative to the grey, and sensitivity of the human eye to small changes in colour balance of neutrals. The four factors influencing grey balance are: ink film thickness, dot gain, trapping, and ink colour strength. A grey balance testform can be produced using constant ink film thickness, using the solid densities or colour measurement values that correspond to the ISO 12647-3 CIELAB target values. (2 fig)

Company Names: International Newspaper Color Quality Club  
Descriptors: COLOUR MANAGEMENT...

35/3,K/6 (Item 2 from file: 248)  
DIALOG(R) File 248:PIRA  
(c) 2004 Pira International. All rts. reserv.

00506358 Pira Acc. Num.: 20107767

**Title: A new method for ink feed control in multicoloured newspaper printing**

Authors: Verikas A; Malmqvist K; Bergman L  
Source: Proceedings SSAB Symposium on Image Analysis, Uppsala, Sweden, 16-17 Mar. 1998, pp 13-16 [Uppsala, Sweden, Uppsala University, 188pp] (S)  
Publication Year: 1998  
Document Type: Conference Publication  
Language: English

**Title: A new method for ink feed control in multicoloured newspaper printing**

Abstract: A method is developed for colour measurements directly on printed halftone multicoloured pictures. A concept of colour impression is introduced and used to mean the CMYU or CMYK colour vector. The percentage area covered by cyan, magenta, yellow and black inks is a major determinant of vector component values as are ink densities. The RGB image from the measuring area is registered and values are then transformed to the triplet or quadruple of CMY or CMYK values, respectively. The colour vector expresses integrated information concerning tonal values and ink densities. The results give a good correlation between colour vector components and ink densities. (5 fig, 3 ref)

Descriptors: COLOUR MEASUREMENT...

... COLOUR TEST...

... HALFTONE ; ...

...PRINTING INK

35/3,K/7 (Item 3 from file: 248)  
DIALOG(R)File 248:PIRA  
(c) 2004 Pira International. All rts. reserv.

00485043 Pira Acc. Num.: 20086628

**Title: An exploration of the Pantone Hexachrome six- color system reproduced by stochastic screens**

Authors: Herron S

Source: Fourth color imaging conference: color science, systems and applications, Scottsdale, AZ, USA, 19-22 Nov. 1996, pp 114-120 [Springfield, VA, USA: Society for Imaging Science and Technology, 1996, 248pp, \$65.00 (ISBN 0-89208-196-1) (655.024:681.3) (R12394)

Publication Year: 1996

Document Type: Conference Publication

Language: English

**Title: An exploration of the Pantone Hexachrome six- color system reproduced by stochastic screens**

Abstract: The Pantone Hexachrome colour mixing system is a Hi-Fi, non-linear, device-dependent space, comprising five chromatic, and one achromatic, colours, producing a larger colour gamut than conventional CMYK inks. Images from scanners are in RGB video device space. The Hexachrome system is presented in relation to a typical CMYK device-dependent, and RGB video, space. Reproduction of Hexachrome colours, using stochastic screens is press-tested, and analysed. Inherent reproduction differences exist between conventional halftone and stochastic screens. Stochastic reproduction of Hexachrome colours offers several advantages, including absence of moire in grey balance, easier control of total ink percentage, improved stochastic reproduction, and more tolerance of dot gain variations. (7 fig, 13 ref)

Descriptors: COLOUR REPRODUCTION...

... HALFTONE ; ...

... INK ;

Section Headings: Halftone (8231)

35/3,K/8 (Item 4 from file: 248)  
DIALOG(R)File 248:PIRA  
(c) 2004 Pira International. All rts. reserv.

00424466 Pira Acc. Num.: 40004931

**Title: IMAGE REPRODUCING SYSTEM**

Authors: Ohtsuka S; Yoda A; Usami Y

Patent Assignee: FUJI PHOTO FILM CO LTD

Patent Number: EP 660590 Patent Date: 950628

Application number: JP 327339 Application Date: 931224

Publication Year: 1995

Document Type: Patent

Language: English



Abstract: Image characteristics of a **halftone** printed image are simulated accurately taking into account periodic noise and random noise and the simulated image is the output of an image output unit. **Yellow , magenta , cyan** and black **halftone** dot **percentage** data are converted into **colour** image data to which noise data are applied.

35/3,K/9 (Item 5 from file: 248)  
DIALOG(R)File 248:PIRA  
(c) 2004 Pira International. All rts. reserv.

00412837 Pira Acc. Num.: 40004016

**Title: METHOD OF AND SYSTEM FOR PREDICTING A COLOUR REPRODUCTION IMAGE**

Authors: Ohtsuka S; Yoda A; Usami Y

Patent Assignee: FUJI PHOTO FILM CO LTD

Patent Number: EP 653879 Patent Date: 950517

Application number: JP 288344 Application Date: 931117

Publication Year: 1995

Document Type: Patent

Language: English

**Title: METHOD OF AND SYSTEM FOR PREDICTING A COLOUR REPRODUCTION IMAGE**

Abstract: A system of predicting the colour of a reproduced image from YMCK ( **yellow , magenta , cyan** and black) **halftone** dot **percentage** data involves the conversion of the data into an XYZ **colorimetric** system which is then used to predict the **colour** to be reproduced. Alternatively the YMCK **halftone** data can be corrected using dot gain correcting coefficients and then converted into XYZ **colour** space.

...Descriptors: **Colour** photography

Section Headings: ELECTRONIC PHOTOGRAPHY (6042); **COLOUR** PHOTOGRAPHY - GENERAL (6059)

File 344:Chinese Patents Abs Aug 1985-2003/Nov  
(c) 2003 European Patent Office  
File 347:JAPIO Oct 1976-2003/Sep(Updated 040105)  
(c) 2004 JPO & JAPIO  
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200404  
(c) 2004 Thomson Derwent

? ds

Set	Items	Description
S1	1004089	(FILTER? OR SCREEN?)
S2	17333	(HALF()TON? OR DITHER? OR ERROR()DIFFUS? OR HALFTON?)
S3	642	S1 AND S2 AND (INPUT OR ORIGINAL) AND (OUTPUT OR PRINT?)
S4	1632074	(TINT? OR SHADE? OR SPOT OR CHERRY()APPLE OR CHERRY OR ROSE OR RED OR BRICK OR GREEN()YELLOW OR MAROON OR TONE OR GRADAT- ION OR HUE OR LIGHT OR DARK)
S5	247857	(MAGENTA OR CYAN OR RED OR GREEN OR BLUE OR YELLOW OR RGB - OR CMYK )
S6	191824	PERCENT? OR FRACTION?
S7	1272769	(COLOR? OR COLOUR? OR COLORANT? OR COLOURANT? OR INK? OR - DYE?? OR SHADE?? OR TINT?? OR SPOT OR TONE?? OR GRADATION? OR HUE?? OR CONTRAST???)
S8	137	S1 AND BITMAP?
S9	949895	(TINT? OR SHADE? OR GRADATION? OR SPOT OR TONE? OR HUE? OR COLOR? OR COLOUR? OR COLOURANT? OR COLORANT?)
S10	253	S2 AND S6
S11	1040979	(COLOR? OR COLOUR? OR COLOURANT? OR TINT? OR TONE? OR SHAD- E? OR GRADATION? OR INK?)
S12	1063820	(COLOR? OR INK? OR COLOUR? OR COLORANT? OR COLOURANT? OR T- INT? OR TONE? OR SHAD??? OR GRADATION?)
S13	137	S12 AND COMBIN? AND S1 AND S2
S14	1234	S4 AND S5 AND S6 AND S7
S15	315	S14 AND S1
S16	6	S15 AND S2
S17	514	AU= (COOK, R? OR HYLANDS, D? OR BLONDAL, D? OR COOK R? OR - HYLANDS D? OR BLONDAL D?)
S18	1	S17 AND S3
S19	6	S8 AND S9 AND S2
S20	6	S19 NOT (S16 OR S18)
S21	786047	IC=H04N?
S22	78	S13 AND S21
S23	3	S22 AND S6
S24	2	S23 NOT (S19 OR S16 OR S18)
S25	107	S10 AND S21
S26	10	S25 AND S5
S27	8	S26 NOT (S23 OR S19 OR S16 OR S18)

16/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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00987523 \*\*Image available\*\*  
MEASURING DEVICE FOR DOT AREA RATE OF COLOR PRINTED MATTER

PUB. NO.: 57-137823 [JP 57137823 A]  
PUBLISHED: August 25, 1982 (19820825)  
INVENTOR(s): YONEHARA HIROYUKI  
APPLICANT(s): DAINIPPON SCREEN MFG CO LTD [351872] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 56-024728 [JP 8124728]  
FILED: February 20, 1981 (19810220)  
JOURNAL: Section: P, Section No. 157, Vol. 06, No. 237, Pg. 127,  
November 25, 1982 (19821125)

MEASURING DEVICE FOR DOT AREA RATE OF COLOR PRINTED MATTER

#### ABSTRACT

... facilitate controlling of a printing machine by operating dot are rates from the intrinsic integrated color densities of solid printed parts and the measured values of the color densities of the local places to be measured...

... A storage part which stores the intrinsic integrated densities of the sold printed parts of inks of cyan, magenta and yellow colors and the color densities of the local parts to be measured of the halftone printed matter by these inks, and an arithmetic part which operates dot area rates arithmetically by substituting the stored values in the equation 2 are provided. For example, the densities DR, DG, DB of the red (R), green (G), and blue (B) of the parts to be measured of the inks of cyan (C), magenta (M), and yellow (Y) are measured by inserting R, G, B filters 2, thence only the main densities of the respective inks are taken out and the temporary dot area rates are determined and these are so corrected that the differences between the respective 3 color densities by these and the respectively measured 3 color densities are kept within a permissible error range. The results are displayed in percentage.

16/3,K/2 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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012533966 \*\*Image available\*\*  
WPI Acc No: 1999-340072/199929  
XRAM Acc No: C99-100280  
XRPX Acc No: N99-255000

Silver halide light sensitive color photographic material for color proofing

Patent Assignee: KONICA CORP (KONS )  
Inventor: NONAKA Y; TOSAKA Y  
Number of Countries: 027 Number of Patents: 004  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 924564	A1	19990623	EP 98123936	A	19981216	199929 B
JP 11184043	A	19990709	JP 97364073	A	19971217	199938
US 6096490	A	20000801	US 98210486	A	19981211	200039
EP 924564	B1	20011024	EP 98123936	A	19981216	200169

Priority Applications (No Type Date): JP 97364073 A 19971217

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 924564	A1	E	53	G03C-001/95	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT					
LI LT LU LV MC MK NL PT RO SE SI					
JP 11184043	A		43	G03C-001/95	
US 6096490	A			G03C-001/79	
EP 924564	B1	E		G03C-001/95	
Designated States (Regional): GB					

**Silver halide light sensitive color photographic material for color proofing**

Abstract (Basic):

... This combination is used in **color** proofing from **halftone** dot image information obtained by **color** separation and **halftone** dot image conversion when the material gives a stable image without a density increase in the white background even when varying the dot **percentage** to resemble a print. Silver halide **light sensitive color** photographic material comprising a reflective support comprising a base paper bearing on each side a...

... **Color** proofing photographic materials...

...During **color** proofing using the material from **halftone** dot image information obtained by **color** separation and **half tone** dot image conversion, the material gives a stable image without a density increase in the white background even when varying the dot **percentage** to resemble a print

Technology Focus:

... 1.0 at at least 730 nm. The material comprises silver halide emulsions for forming **yellow** , **magenta** , **cyan** , and black images, comprising compounds (1 -(4...

...a group capable of being released upon coupling reaction with an oxidation product of a **color** developing agent...

Extension Abstract:

... dioxide in polyethylene on the other This was coated on the titanium oxide side with **blue** , **green** , **red** , and infrared sensitive emulsion layers, and on the polyethylene side with a 6 g / m2...

...with 0.65 g / m2 matting agent. The IR sensitive layer was identical to the **blue** -sensitive layer with the sensitizing **dye** replace with IRS-1 which gave the layer a spectral sensitivity of 765 nm...

...at a coverage of 1 g / m2 were made and the samples exposed through a **yellow** , **magenta** , or **cyan** , or **yellow** / black **halftone** original in close contact with a **halftone** of 50 % at 175 lines / in. In each case the samples were exposed through the appropriate IR, **Blue** , **red** , or **green filter** to a white **light** source for 0.3 sec with the **filter** density adjusted such that after processing the **halftone** dot original with the dot % of 50 % gave dots with a dot %=60 % or 65...

...mum rutile gave a density variation of white background of 0.09 - 0.12 for **yellow** , 0.9 for **magenta** , and 0.8 for **cyan** , the small dot reproducibility (at the time medium of dots with 65 % being produced) was...

...Title Terms: **LIGHT** ;

16/3,K/3 (Item 2 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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008555037 \*\*Image available\*\*  
WPI Acc No: 1991-059072/199109  
XRPX Acc No: N91-045772

Colour tone conversion procedure for production of colour pictures  
- uses characteristic curves of photosensitive emulsions to produce  
required colours

Patent Assignee: YAMATOYA & CO LTD (YAMA-N)  
Inventor: NUMAKURA I; NUMAKURA T  
Number of Countries: 004 Number of Patents: 006  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4010299	A	19910221	DE 4010299	A	19900330	199109 B
GB 2237473	A	19910501	GB 9017186	A	19900806	199118
JP 3077478	A	19910403	JP 89212118	A	19890819	199120
US 5057931	A	19911015	US 90481055	A	19900216	199144
GB 2237473	B	19931103	GB 9017186	A	19900806	199344
DE 4010299	C2	19990805	DE 4010299	A	19900330	199935

Priority Applications (No Type Date): JP 89212118 A 19890819

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 4010299	A		22		
US 5057931	A		22		
GB 2237473	B			H04N-001/46	
DE 4010299	C2			G03B-027/73	

Colour tone conversion procedure for production of colour pictures  
...

...uses characteristic curves of photosensitive emulsions to produce  
required colours

...Abstract (Basic): The procedure concerns the reproduction of pictures  
esp. with continually variable tones. The figure shows the  
characteristic density curve of photosensitive emulsion layers of  
photosensitive materials with respect to exposure value to each of the  
primary colours (red, green, blue).

Red ...

...Red, green and blue filters are used respectively on equipment scanning  
colour plates with cyan, magenta and yellow. Separate information is  
held for light and dark areas of colour.

...Abstract (Equivalent): conversion of a picture upon producing a  
reproduced picture, said reproduced picture being free of colour -fog,  
from an original colour picture of continuous tone having colour  
-fog thereon, which comprises the steps of: (a) preparing density  
characteristic curves of respective red (R), green (G) and blue  
(B) photosensitive emulsion layers of a photosensitive colour film  
material used upon photographing the original colour picture, each of  
said density characteristic curves being expressed in a coordinate  
system in which...

...values and an axis of abscissas designated as X axis represents  
pictorial information values on light exposure; (b) designating a  
brightest area (H) and a darkest area (S) on the original colour  
picture to measure the density values (Dh) of the brightest area (H)

and the density values (Ds) of the darkest area (S) on the **red** (R), **green** (G) and **blue** (B) photosensitive emulsion layers respectively, by means of **red** (R), **green** (G) and **blue** (B) **filters** for **cyan** (C), **magenta** (M) and **yellow** (Y) **colour** plates respectively and plotting the so-obtained density values (Dh) and (Ds) of the respective ...

...layers along the D axis; (c) determining, from the density values (Dn) of the respective **red** (R), **green** (G) and **blue** (B) photosensitive emulsion layers in a range of from the brightest area (Dh) to the...

...brightest area (Xh) to the darkest area (Xs) on the X axis for producing the **cyan** (C), **magenta** (M) and **yellow** (Y) **colour** plates in accordance with the corresponding density characteristic curves of the **red** (R), **green** (G) and **blue** (B) photosensitive emulsion layers; (d) obtaining pictorial information values at desired number of control points out of the pictorial information values (Xn) of the respective **colour** plates in the range of from the brightest area (Xh) to the darkest area (Xs)...

...the D axis; (f) comparing the relative relations of the control points for the respective **colour** plates in the range of from the brightest area (Xh) to the darkest area (Xs)...

...to the darkest area (Ds) on the D axis, and obtaining objective data on the **colour** -fog; (g) converting the pictorial information values (Xn) for the respective **colour** plates obtained in step (c) into **halftone** intensities (y) such as dot area **percents** in accordance with the following formula:  $y = y_h + \alpha (1 - 10^{-kx}) / \alpha - \beta$ . (ys...

...Xh) obtained by measuring a density value (Dn) of a desired picture element on a **colour** original having **colour** -fog thereon on the D axis by means of one of **colour filters**, projecting the measured density value (Dn) on the X axis in accordance with the density characteristic curve of a photosensitive emulsion layer corresponding to the **colour filter**, determining a pictorial information value (Xn) on the X axis, determining, in a same manner, a pictorial information value (Xh) on the X axis for producing a corresponding **colour** plate, said pictorial information value (Xh) corresponding to a density value (Dh) on the D axis of the brightest area on the **colour** original picture, and subtracting said pictorial information value (Xh) from said pictorial information value (Xn); y: a **halftone** intensity such as dot area **percentage** of a picture element on a reproduced picture free of **colour** -fog corresponding to a desired picture element on each of the **colour** plates of the **colour** original picture having **colour** -fog thereon; y<sub>h</sub>: a **halftone** intensity such as a dot area **percentage** preset to either a density value (Dh) of the brightest area (H) or a corresponding pictorial information value (Xh) on the X axis upon measuring the **colour** original picture by means of each of the **colour filters**; y<sub>s</sub>: a **halftone** intensity such as a dot area **percentage** preset to either a density value (Ds) of the darkest area (S) on the D axis and a corresponding pictorial information value (Xs) on the X axis upon measuring the **colour** original by means of each of the **colour filters**; alpha: a surface reflectance of a base material used for expressing the reproduced picture thereon...

...value (Ds) on the D axis of the darkest area (S) obtained by measuring the **colour** original picture by means of each of the **colour filters**; and gamma: a desired optional factor determined on the basis of the objective data obtained...

...Abstract (Equivalent): The tonal conversion is conducted in a manner

that objective data relating to **colour** -fog from a **colour** original picture having **colour** -fog obtained using undistorted X-axis pictorial information values for respective C, M and Y **colour** plates obtained from the corresponding density value on the D axis...

...accordance with corresponding density characteristic curves of R, G, B photosensitive emulsion layers of a **colour** film used upon photographing the original **colour** pictures, providing reproduced pictures free of **colour** -fog by using a specific tonal conversion formula...

...USE - A tonal conversion method of pictures useful upon producing reproduced pictures such as **halftone** pictures free of **colour** -fog from **colour** -fogged **colour** original picture of continuous **tone** .  
(22pp)

Title Terms: **COLOUR** ;

16/3,K/4 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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007638469

WPI Acc No: 1988-272401/198839

XRPX Acc No: N88-206920

**Densitometer for identifying and analysing printed targets - has printing process adjusted based upon displayed solid densities, and calculated per cent trap and per cent dot area**

Patent Assignee: KOLLMORGEN CORP (PHOC ); KOLLMORGEN INSTR CORP (PHOC );

KOLLMORGEN TECHNOLOGIES CORP (PHOC )

Inventor: VAN ARSDELL R D; VANARSDEL R D

Number of Countries: 010 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 283899	A	19880928	EP 88104044	A	19880315	198839 B
GB 2202939	A	19881005	GB 886394	A	19880317	198840
US 4947348	A	19900807	US 8730735	A	19870325	199034
GB 2202939	B	19910306				199110
CA 1323207	C	19931019	CA 562338	A	19880324	199348
EP 283899	B1	19950315	EP 88104044	A	19880315	199515
DE 3853307	G	19950420	DE 3853307	A	19880315	199521
			EP 88104044	A	19880315	

Priority Applications (No Type Date): US 8730735 A 19870325

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 283899 A E 17

Designated States (Regional): CH DE FR GB IT LI NL SE

EP 283899 B1 E 21 B41F-013/02

Designated States (Regional): DE

DE 3853307 G B41F-013/02 Based on patent EP 283899

CA 1323207 C G01J-003/50

...Abstract (Basic): Referenced density values measured through **red** , **green** , **blue** and visual optical **filters** for an overprint and two down **colours** are used to determine and display **percent** trap. Reference density values for **halftone** and corresponding solid targets are used to determine and display **percent** dot areas. Referenced density values for solid targets may also be displayed. The printing process is adjusted based upon the displayed solid densities, **percent** trap and **percent** dot area...

...Upon measurement of an unprinted substrate, the **red** , **green** , **blue** and visual optical densities are stored. The **percent** dot area is calculated using the formula...

...where  $O_h$  is the largest measured **halftone** density,  $S$  is the solid density corresponding to  $O_h$ , and  $n$  is the Yule-Nielsen...

...Abstract (Equivalent): A method for recognizing the type of printed target and controlling a multi- **color** printing process comprising the steps of...

...measuring the **red** , **green** , **blue** an visual optical densities of a selected target...

...where neither an unprinted substrate nor a solid black target is detected, comparing the measured **red** , **green** and **blue** optical densities to a third stored constant  $K_3$  and comparing the difference between the largest and smallest of the **red** , **green** and **blue** measured optical densities to a fourth stored constant  $K_4$  to determine whether an overprint has...

...if an overprint has been measured, performing an overprint check as follows: comparing the measured **green** optical density to the measured **red** optical density and, where the **green** density is less than the **red** density, concluding that an overprint has been measured, where the measured **green** density is greater than or equal to the measured **red** density, comparing the measured **blue** optical density to the **red** density and, where the **blue** density is less than the **red** density, concluding that an overprint has been measured, where the measured **blue** optical density is greater than or equal to the **red** density, comparing the **blue** density to a fifth stored constant  $K_5$  such that, if the **blue** density is less than  $K_5$ , it is concluded that a muddy solid **magenta** has been read, that a muddy solid **magenta** has been read is displayed, the measured **green** optical density is stored as  $S_g$  and the above measuring step is repeated, whereas if the **blue** density is greater than or equal to  $K_5$  it is concluded that an overprint has...

...an overprint has been measured, the following additional steps are performed to determine and display **percent** trap...

...i) storing the measured **red** , **green** and **blue** optical densities as overprint values  $T_r$ ,  $T_g$  and  $T_b$ , respectively...

...ii) measuring the **red** , **green** , **blue** optical densities of the first down **color** and storing these values as  $T_{lr}$ ,  $T_{lg}$ ,  $T_{lb}$ , respectively...

...iii) measuring the **red** , **green** and **blue** optical densities of the second down **color** and storing the greatest measured value as  $T_2$ ...

...iv) calculating **percent** trap using the equation...

...where  $T$  and  $T_1$  are the overprint and first down **color** density values corresponding to the **filter color** designated as  $T_2$ ; and...

...v) displaying the **percent** trap, whereupon the above measuring step is repeated on a different target location...

...where none of an unprinted substrate, a solid black, a muddy **magenta** or an overprint are detected, comparing the measured **red** , **green** and **blue** optical densities to a sixth stored constant  $K_6$  to determine whether a solid **color** target has been measured and, if a solid **color**



target has been measured, storing the largest of the measured **red** , **green** of **blue** optical densities as the corresponding solid density  $S_r$ ,  $S_g$ ,  $S_b$  and repeating the above measuring...

...where none of an unprinted substrate, a solid black, a muddy **magenta** , an overprint or a solid **color** are detected, comparing the difference between the largest and smallest measured **red** , **green** and **blue** optical densities to a seventh stored constant  $K_7$  such that, if the difference is less than  $K_7$  a black **halftone** is assumed and if the difference is greater than or equal to  $K_7$  a **color halftone** is assumed, whereupon **percent** dot area may be determined for the **halftone** using the equation...

...where  $D_h$  is the largest measured **halftone** density...

...the **percent** dot area being displayed...

...Abstract (Equivalent): A method for controlling a printing process comprising the steps of measuring the **red** , **green** , **blue** and visual optical densities of a selected target; determining from said measured optical densities whether...

...optical densities wheher an overprint has been measured and, if so, measuring the first down **color red** , **green** and **blue** optical densities, measuring the second down **color red** , **green** and **blue** optical densities, calculating from said optical densities of the overprint, the first down **color** and the second down **color** , the **percent** trap of the overprint, and displaying said **percent** trap t to the pressman for use in controlling the printing process, whereafter the above...

...or an overprint is not detected, determining from said measured optical densities whether a solid **color** target has been measured and, if so, storing the greatest measured optical density as the...

...solid density and repeating the above measuring step at a different target location; where a **halftone** is detected, that is, not an unprinted substrate, overprint or solid black or **color** , calculating **percent** dot area from the largest **halftone** optical density and the corresponding stored solid density, whereupon the **percent** dot area is displayed to the pressma

...Abstract (Equivalent): held battery operated densitometer automatically determines whether an unprinted substrate, a solid black, a muddy **magenta** solid, an over-print, a solid **colour** , or a **halftone** has been detected. Referenced density values measured through **red** , **green** , **blue** and visual optical **filters** for an overprint and the first and second down **colours** are used to determine and display **percent** trap...

...Referenced density values for **halftone** and corresp. solid targets are used to determine and display **percent** dot area. Referenced density values for solid targets may also be displayed...

...ADVANTAGE - Identifying and analysing printed targets e.g. for printing process control. Automatically displays density, **colour** , **percent** trap and **percent** dot area information for pressman...

004138117

WPI Acc No: 1984-283657/198446

XRPX Acc No: N84-211717

Half - tone dot percentages obtaining method from colour separation  
- by storing conversion table representing relation between colours and  
combination of half - tone dot percentages

Patent Assignee: TOPPAN PRINTING CO LTD (TOPP )

Inventor: KAZUO Y; MASAKI N; TOSHIHIKO H; TOSHIJI F

Number of Countries: 005 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 124908	A	19841114	EP 84105255	A	19840509	198446 B
JP 59206839	A	19841122	JP 8381561	A	19830510	198502
US 4717954	A	19880105	US 84608230	A	19840508	198803
EP 124908	B	19910918				199138
DE 3485069	G	19911024				199144

Priority Applications (No Type Date): JP 8381561 A 19830510

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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EP 124908	A	E 65		
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Designated States (Regional): DE FR GB

EP 124908	B			
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Designated States (Regional): DE FR GB

Half - tone dot percentages obtaining method from colour separation  
...

...by storing conversion table representing relation between colours and  
combination of half - tone dot percentages

...Abstract (Basic): Light reflected by an illuminated colour chart or  
colour sample is passed through a filter (31) to a photo-multiplier  
(31). A log amplifier (105) connects the signal into a colour density  
representation which is digitised by an analog-digital converter (106).  
The resulting digital data...

...The data fed to the CPU are stored in a random access memory (111). The  
colour to tone dot percentages conversion data are stored in a  
read-only memory (112). The conversion data are stored with the aid of  
a key-board (102) by which the combinations of half - tone dot  
percentages are input according to the values on a known colour  
chart...

...USE/ADVANTAGE - For colour printing using colour data derived from  
optical measurement of colour specimen. Is accurate even when the  
colours assigned are not monochromatic

...Abstract (Equivalent): A method of obtaining half - tone dot percents  
of colour separations necessary for reproducing a colour  
designated by a color specimen, comprising the steps of: optically  
measuring a plurality of colour charts on which colours are printed  
using predetermined combinations of half - tone dot percents to  
obtain colour information; storing a conversion table of said colour  
information and said predetermined corresponding combinations of half  
- tone dot percents; optically measuring a colour specimen  
designating a colour to be reproduced to obtain colour information  
for said colour to be reproduced; successively comprising said  
colour information obtained from said colour specimen with said  
colour information in said conversion table and selecting the colour  
information from said conversation table which most closely corresponds  
to said colour information obtained from said colour specimen;

selecting the combination of **half - tone dot percents** corresponding to said selected **colour** information from said conversion table; determining if a value of 0 **percent** is included in said selected combination of **half - tone dot percents** , and determining if a value of 100 **percent** is included in said selected combination of **half - tone dot percents** ; if at least one of said values of 0 **percent** and 100 **percent** is included in said selected combination of **half - tone dot percents** , producing expanded combinations of **half - tone dot percents** and corresponding expanded **colour** information, said expanded combination of **half - tone dot percents** including a **half - tone dot percent** value below 0 **percent** when said selected combination of **half - tone dot percents** includes said value of 0% and including a **half - tone dot percent** value above 100 **percent** when said selected combination of **half - tone dot percents** includes said value of 100 **percent** , said expanded **colour** information corresponding to said expanded combinations of **half - tone dot percents** being derived from

...Abstract (Equivalent): A variety of **colour** charts printed using predetermd. combinations of **half - tone dot percents** are optically measured to obtain **colour** information of the **colours** printed on the **colour** charts. The obtd. information values together with the corresp. predetermd. combinations of **half - tone dot percents** therefore are then utilised to prepare a conversion table of **colour** information and corresp. **half - tone dot percents** for reproducing each of the **colours** printed on the **colour** charts...

...A **colour** specimen is then optically measured to detect **colour** information of a **colour** to be reproduced. The **colour** information obtd. from the **colour** specimen is then successively compared with the **colour** information of the conversion table. The **colour** information of the conversion table is selected which most closely corresponds to the information obtd. ...

...USE/ADVANTAGE - Improved reprodn. accuracy. For obtd. **half - tone dot percent** of each **colour** sepn. where **colour** designated by specimen is to be reproduced by printing of **ink** of, e.g. **yellow** , **magenta** , **cyan** and black...

...Title Terms: **TONE** ;

16/3,K/6 (Item 5 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2004 Thomson Derwent. All rts. reserv.

001908765

WPI Acc No: 1978-D8009A/197820

**Density calibration system for half - tone copying material - uses blue and yellow filter with grey wedge and includes purpose built slide rule**

Patent Assignee: DU PONT DE NEMOURS & CO E I (DUPO )

Inventor: FURST K

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 2035756	B	19780511				197820 B

Priority Applications (No Type Date): DE 2035756 A 19700718

**Density calibration system for half - tone copying material...**

...uses blue and yellow filter with grey wedge and includes purpose built slide rule

...Abstract (Basic): 11) on the entire surface of the copying paper. An exposure slit (12) which has blue (13) and yellow (14) filters are placed diagonally to each other. This exposure slit is then placed on the board...

...A test paper is exposed with ordinary light such that board (11) moves at a constant speed under grey wedge (3) with the test copying paper (7). The test paper is fully exposed at one end with blue light and other end with yellow light such that it is exposed in between with gradually varying blue and yellow colour bands. Exposed copying paper is then developed and measured with a sensitometer such that points...

...7D are added, thus having two measurements of equal density. Values of exposure time for colour bands are printed on a slide rule which has five scales- contrasts in terms of densities, total exposure time, maximum thickness of copying paper, percentage values of density.

...Title Terms: TONE ;

?

18/3,K/1 (Item 1 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

013797209 \*\*Image available\*\*  
WPI Acc No: 2001-281421/200129  
XRPX Acc No: N01-200685

Color separation merging in Raster Image Processor involves combining selective merged half toned separations produced relative to output device if input colorants are not included in output device colorants  
Patent Assignee: CREO PROD INC (CREO-N); CREO INC (CREO-N)  
Inventor: BLONDIAL D J; COOK R ; HYLANDS D  
Number of Countries: 095 Number of Patents: 004  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200117231	A1	20010308	WO 2000US23838	A	20000830	200129 B
AU 200070917	A	20010326	AU 200070917	A	20000830	200137
EP 1219107	A1	20020703	EP 2000959630	A	20000830	200251
			WO 2000US23838	A	20000830	
JP 2003517225	W	20030520	WO 2000US23838	A	20000830	200334
			JP 2001521052	A	20000830	

Priority Applications (No Type Date): US 99385335 A 19990830

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 200117231	A1 E	38	H04N-001/46	
Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW				
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW				
AU 200070917	A		H04N-001/46	Based on patent WO 200117231
EP 1219107	A1 E		H04N-001/46	Based on patent WO 200117231
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI				
JP 2003517225	W	39	H04N-001/60	Based on patent WO 200117231

Color separation merging in Raster Image Processor involves combining selective merged half toned separations produced relative to output device if input colorants are not included in output device colorants  
...Inventor: COOK R ...

... HYLANDS D

Abstract (Basic):

... Colorants for image composing is compared with the set of colorants imageable by output device. Input data is rasterized and half toned color separations relative to input colorants are produced by an interpreter (32), if input colorants is not included in output device colorants. Half toned color separations are filtered and combined by color combiner (34) to produce merged half toned color separations.  
... Several half toned color separations produced by the interpreter are corresponding is number and color to the colorants used to compose the image. The merged half toned color separations are corresponding in number and color to the half toned color separations that the output device is capable of imaging and are output to use by the output device. INDEPENDENT CLAIMS are also included for the following...

...a) Method of receiving **input** data...

...b) System for receiving **input** data...

...In Raster Image Processor (RIP) for producing **half toned** color separations ideally suited for specific **output** imaging device...

...Since **half toned** color separations are **filtered** and combined, Raster image processing system is capable of being used with numerous different **output** devices producing same image even each is capable of imaging a different number and types...

...Title Terms: **OUTPUT** ;

?

20/3,K/1 (Item 1 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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015866846 \*\*Image available\*\*  
WPI Acc No: 2004-024677/200403  
XRPX Acc No: N04-019371

Bitmap image color correction method in e.g. laser printer, involves  
converting calculated number of pixels based on whether target dot area  
percentage is more or less than dot area percentage in original image

Patent Assignee: EASTMAN KODAK CO (EAST )  
Inventor: BRAUN G J; BURNS P D; SPAULDING K E  
Number of Countries: 032 Number of Patents: 002  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1365574	A2	20031126	EP 200376416	A	20030512	200403 B
US 20030218780	A1	20031127	US 2002154546	A	20020524	200403

Priority Applications (No Type Date): US 2002154546 A 20020524  
Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 1365574	A2	E 22	H04N-001/405	
Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR				
US 20030218780	A1		H04N-001/405	

Bitmap image color correction method in e.g. laser printer, involves  
converting calculated number of pixels based on...

Abstract (Basic):

... A target dot area percentage for each block in an original **half**  
- **tone** bit map image is calculated based on preset **color** correction  
function. The number of **half** - **tone** image pixels is calculated to  
obtain a modified bit map image containing target dot area...

... For correcting an original **half** - **tone** bit map image for  
single **color** device like black and white laser printer, **color**  
output device like printing press, graphic arts proofer and multi-  
**color** inkjet printer...

...Adjusts dot size of bit map image files so that **color** and **tone** of  
bit map files are adjusted prior to printing. Performs morphological  
**filtering** operations for erasure and dilation by identifying interior  
and exterior boundaries of **half** - **tone** dot in a given region.  
Eliminates the need for generating candidate dot patterns to produce an  
estimate of the desired **half** - **tone** dot. Enables removing or adding  
the correct number of pixels to original **half** - **tone** image directly  
to reduce generation of error to obtain a smooth image. Enables adding  
or removing pixels to edges of existing **half** - **tone** dots in any order  
to correct **color** images of different dot shapes. Enhances efficiency  
of operation by calculating only the local dot area percentage of  
original **half** - **tone** bit map image...

...The figure shows a flowchart for adding or removing pixels to edges of  
dots in **half** - **tone** images...

...Title Terms: COLOUR ;

20/3,K/2 (Item 2 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015836544      \*\*Image available\*\*

WPI Acc No: 2003-898748/200382

XRFX Acc No: N03-717255

**Object color trapping method for image processing apparatuses, involves receiving page object in page description defining object as edge lists or bitmap , and performing trapping technique based on object definition**

Patent Assignee: LANE D K (LANE-I); REN N (RENN-I)

Inventor: LANE D K; REN N

Number of Countries: 001    Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030179394	A1	20030925	US 2002105660	A	20020325	200382    B

Priority Applications (No Type Date): US 2002105660 A 20020325

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20030179394	A1	18	B41J-001/00	

**Object color trapping method for image processing apparatuses, involves receiving page object in page description defining object as edge lists or bitmap , and performing trapping technique based on object definition**

Abstract (Basic):

...      an image-forming controller. The description defines the object as an edge list or a **bitmap** . The object is categorized to identify category of the object. A trapping technique is performed...

...lists and another trapping technique is performed when the description defines the object as the **bitmap** .

...      Used for **color** trapping in image processing apparatuses...

...The **color** trapping technique minimizes the show formed around an object by spreading and choking based on object definition, thus reducing the steps of **color** trapping and avoids significant **color** shifts and irregularities in the **halftone screens** .

...The drawing shows a flowchart diagram outlining steps of **color** trapping

...Title Terms: **COLOUR** ;

**20/3,K/3      (Item 3 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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013502296      \*\*Image available\*\*

WPI Acc No: 2000-674237/200066

XRFX Acc No: N00-499853

**Tone dependent error diffusion halftoning method for e.g. color inkjet printer, uses tone dependent thresholds and error weightings that are optimized by minimizing a model based cost function**

Patent Assignee: HEWLETT-PACKARD CO (HEWP )

Inventor: ALLEBACH J P; LI P

Number of Countries: 027    Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1051024	A2	20001108	EP 2000303632	A	20000428	200066    B
JP 2000333010	A	20001130	JP 2000127000	A	20000427	200102
US 6563957	B1	20030513	US 99307007	A	19990507	200335



Priority Applications (No Type Date): US 99307007 A 19990507

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 1051024 A2 E 36 H04N-001/40

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI

JP 2000333010 A 24 H04N-001/405

US 6563957 B1 G06K-009/46

**Tone dependent error diffusion halftoning method for e.g. color inkjet printer, uses tone dependent thresholds and error weightings that are optimized by minimizing a model based cost function**

Abstract (Basic):

... The method uses **tone** dependent thresholds and error weightings that are optimized by minimizing a model based cost function...

...if less than a lower threshold, no dot is printed, and if between, a binary **bitmap** is used to determine whether a dot should be printed.

... For each midtone threshold level, a **halftone** image is generated by a direct binary search method and an **error diffusion** method. The magnitudes of the fast Fourier transforms, of the **halftone** images are compared using a visual cost function and the thresholds and error weightings are altered to minimize the cost function. For highlight and shadow **tone** levels, a **filtered halftone** image from an **error diffusion** system is compared to the continuous **tone** image after **filtering** the image via a human visual system model. Again by minimizing the cost function, the...

...For e.g. **color** inkjet printer...

...Efficient **halftoning** method that provides a high quality image. Avoids use of additional **filters** on **error diffusion** architecture, thus, avoiding additional computation...

...The drawing shows a **color** inkjet printer which includes processing circuitry for performing all or part of **error diffusion** method...

Title Terms: **TONE** ;

20/3,K/4 (Item 4 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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013464500 \*\*Image available\*\*

WPI Acc No: 2000-636443/200061

XRPX Acc No: N00-471849

**Method for rescreening half toned image involves inputting halftone image with low and high density pixels, searching for image structures that should be kept and creating a keep area on and around such image structures**

Patent Assignee: ANONYMOUS (ANON )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
RD 434031	A	20000610	RD 2000434031	A	20000520	200061 B

Priority Applications (No Type Date): RD 2000434031 A 20000520

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

**Method for rescreening half toned image involves inputting halftone image with low and high density pixels, searching for image structures that should be kept...**

**Abstract (Basic):**

... The method searches for image structures, in an inputted **halftones** image or **bitmap** with low and high density pixels, that should be kept in the output image and...

...on and around such image structures. The image outside the keep areas are low pass **filtered** and **dithered** for an output image, while pixels in the keep areas are simply copied to the...

... As a method for rescreening a **half toned** image...

...Combines removing **halftone** patterns from the input image data, but does not affect sharp edges between light and...

...Title Terms: **TONE** ;

20/3,K/5 (Item 5 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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010563091 \*\*Image available\*\*

WPI Acc No: 1996-060044/199607

XRPX Acc No: N96-050069

**Mixed lossy and lossless compression method for raster processor - has digital inputs representing images that are sepd. into bit-map lists, maps and masks or continuous tone maps and compressed by different techniques**

Patent Assignee: AGFA-GEVAERT NV (GEVA ); AGFA-GEVAERT (GEVA )

Inventor: DESCHUYTERE F; DESCHUYTERE F A

Number of Countries: 007 Number of Patents: 007

**Patent Family:**

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 691784	A2	19960110	EP 95201615	A	19950616	199607 B
JP 8088774	A	19960402	JP 95186471	A	19950630	199623
EP 691784	A3	19960717	EP 95201615	A	19950616	199636
US 5552898	A	19960903	US 94271369	A	19940706	199641
EP 691784	B1	19980520	EP 95201615	A	19950616	199824
US 5758042	A	19980526	US 94271369	A	19940706	199828
			US 96647167	A	19960509	
DE 69502548	E	19980625	DE 602548	A	19950616	199831
			EP 95201615	A	19950616	

Priority Applications (No Type Date): US 94271369 A 19940706; US 96647167 A 19960509

**Patent Details:**

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 691784	A2	E	9	H04N-001/41	
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Designated States (Regional): BE DE FR GB NL

JP 8088774	A		9	H04N-001/41	
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US 5552898	A		8	H04N-001/41	
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EP 691784	B1	E		H04N-001/41	
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Designated States (Regional): BE DE FR GB NL

US 5758042	A			G06K-015/02	Div ex application US 94271369
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Div ex patent US 5552898

DE 69502548	E			H04N-001/41	Based on patent EP 691784
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... inputs representing images that are sepd. into bit-map lists, maps and masks or continuous tone maps and compressed by different techniques

...Abstract (Basic): The multi- tone and multi- colour printing system includes mixed compression techniques for forming printing instructions. The printing system receives digital input commands (21). These commands are sepd. into instructions suited to solid or half - tone regions, or to continuous tone maps...

...bit-masks. These are compressed (24) by lossless compressions and stored on disc. The continuous- tone maps are stored (25) via lossy compression (35). The two forms are decompressed (28,36) and the continuous tone map converted (37) to bit-maps that are combined (26) before printing (33...

...Abstract (Equivalent): with a solid pattern, and second instructions to fill a second said region with a halftone screen pattern, said method comprising the following steps...

...generation of a bitmap for indicating a density of each recorder element within said first region...

...first lossless compression of said bitmap into a compressed bitmap ; and...

...Title Terms: TONE ;

20/3,K/6      (Item 6 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

010166238      \*\*Image available\*\*  
WPI Acc No: 1995-067491/199509  
Related WPI Acc No: 1995-045419  
XRPX Acc No: N95-053547

**Multilevel half - toning method for electronic colour image printing - forming images by printing single colour images on top of each other, converting image data to two-bit resolution, and printing micro-dot using x-y addressing**

Patent Assignee: AGFA-GEVAERT NV (GEVA ); AGFA-GEVAERT (GEVA )

Inventor: BAETEN R; HERREGODS M; NOPPEN G

Number of Countries: 018    Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9502938	A1	19950126	WO 94EP2291	A	19940707	199509 B
EP 709012	A1	19960501	EP 94920984	A	19940707	199622
			WO 94EP2291	A	19940707	
JP 8512444	W	19961224	WO 94EP2291	A	19940707	199710
			JP 95504341	A	19940707	
EP 709012	B1	19971119	EP 94920984	A	19940707	199751
			WO 94EP2291	A	19940707	
DE 69406929	E	19980102	DE 606929	A	19940707	199806
			EP 94920984	A	19940707	
			WO 94EP2291	A	19940707	
US 5828815	A	19981027	WO 94EP2291	A	19940707	199850
			US 96571940	A	19960110	

Priority Applications (No Type Date): EP 93202522 A 19930827; BE 93713 A 19930712

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9502938	A1	E	26	H04N-001/41	
				Designated States (National):	JP US
				Designated States (Regional):	AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
EP 709012	A1	E	26	H04N-001/41	Based on patent WO 9502938
				Designated States (Regional):	BE DE FR GB NL
JP 8512444	W		32	H04N-001/405	Based on patent WO 9502938
EP 709012	B1	E	16	H04N-001/41	Based on patent WO 9502938
				Designated States (Regional):	BE DE FR GB NL
DE 69406929	E			H04N-001/41	Based on patent EP 709012
					Based on patent WO 9502938
US 5828815	A			H04N-001/46	Based on patent WO 9502938
				Multilevel half - toning method for electronic colour image printing	
				...	

...forming images by printing single colour images on top of each other, converting image data to two-bit resolution, and printing...

...Abstract (Basic): The colour printing method uses a system of multi-level half - toning for images. The printer produces a colour image by printing a number of monochrome images on top of each other. Each monochrome...

...x,y). Each micro-dot is represented by a pixel (32) defined by address and colour density data...

...Each micro-dot is associated with a pixel tone curve (34) which transforms the bitmap signal to the micro-dot. Bit-maps using two or four bits are used allowing...

...USE/ADVANTAGE - E.g. for hard copy digital colour images e.g. desk-top publishing or graphics uses. Allows images of various resolutions to...

...Abstract (Equivalent): A method of producing a colour image by printing on a sheet (37) a number of monochrome images on top of each other, using the appropriate colour for each said monochrome image wherein: each said monochrome image is composed of microdots (36)...

...x,y) and an image signal I<sub>x,y</sub>; all microdots (36) are partitioned by a screen (40) in identical screen cells (33), composed of M (M is an integer) microdots (R<sub>i</sub>); each microdot R<sub>i</sub> is...

...the image signal I<sub>x,y</sub> is transformed by the corresponding pixel tone curve L<sub>i</sub> (34), to a bitmap signal B; said bitmap signal B is transformed to a P-bit printer signal, P being an integer; said...

...by printing to a density on the microdot (36) with the address (x,y); the bitmap signal B is represented by a 4 bit signal...

...Title Terms: TONE ;

?

24/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015722898 \*\*Image available\*\*  
WPI Acc No: 2003-785098/200374  
XRPX Acc No: N03-629224

Image evaluation method for e.g. color printer, involves evaluating image corresponding to each color pitch component percentage based on combined spectrum data generated by convolution execution section for each component color

Patent Assignee: SEIKO EPSON CORP (SHIH )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2003298861	A	20031017	JP 200299881	A	20020402	200374 B

Priority Applications (No Type Date): JP 200299881 A 20020402

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2003298861	A	23	H04N-001/52	

Image evaluation method for e.g. color printer, involves evaluating image corresponding to each color pitch component percentage based on combined spectrum data generated by convolution execution section for each component color

Abstract (Basic):

... An image corresponding to each color pitch component percentage is evaluated based on the combined spectrum data. The spectrum data generated by a convolution execution section (108) for each component color are combined .  
... spectrum data based on the positional relationship between data resulting from concentration of input data, screen angle, and center of gravity of dot on each screen for each component color .  
INDEPENDENT CLAIMS are also included for the following...

...For decreasing image evaluation of e.g. color printer, color copier  
...

...Enables recording of halftone processing program and image setting processing program on the ROM (read only memory)...

...Title Terms: COLOUR ;

International Patent Class (Main): H04N-001/52

...International Patent Class (Additional): H04N-001/405 ...

... H04N-001/60

24/3,K/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

009873163  
WPI Acc No: 1994-153076/199419  
XRPX Acc No: N94-120236

Direct digital printer for producing colour half tone image from digital data file - has macro-pixel filter for constructing pattern of dots for each of several colours such that dot configuration varies as function of input density of each colour  
Patent Assignee: IRIS GRAPHICS INC (IRIS-N)

Inventor: ENGE J M; FARGO F M; INGRAHAM J L  
Number of Countries: 013 Number of Patents: 005  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 596723	A1	19940511	EP 93308791	A	19931103	199419 B
JP 6326858	A	19941125	JP 93302272	A	19931108	199507
US 5416612	A	19950516	US 92973065	A	19921106	199525
EP 596723	B1	19980805	EP 93308791	A	19931103	199835
DE 69320144	E	19980910	DE 620144	A	19931103	199842
			EP 93308791	A	19931103	

Priority Applications (No Type Date): US 92973065 A 19921106

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 596723	A1	E	34	H04N-001/46	
Designated States (Regional): AT BE CH DE ES FR GB IT LI NL SE					
JP 6326858	A		27	H04N-001/40	
EP 596723	B1	E		H04N-001/46	
Designated States (Regional): DE FR GB IT NL SE					
DE 69320144	E			H04N-001/46	Based on patent EP 596723
US 5416612	A			H04N-001/46	
Direct digital printer for producing colour half tone image from digital data file...					

...has macro-pixel filter for constructing pattern of dots for each of several colours such that dot configuration varies as function of input density of each colour

...Abstract (Basic): The appts for producing a colour half tone image from a digital data file fills a pattern of dots for each of a number of colours . The configuration of and size of the dots in a macropixel varies as a function of input density for each of the colours .

...

...USE/ADVANTAGE - Producing colour half - tone images in four colour continuous ink -jet printers. Improves resistance to image defects resulting from colour to colour mis-registration. Minimises Moire types 1 and 2

...Abstract (Equivalent): A pattern of dots is filled for each of a number of colours , such that the configuration and size of dots in a macropixel varies as a function of input density for each of the number of colours . The step of filling includes the step of producing a number of multiple droplet dots...

...An amount of unprinted area within a macropixel is maintained uniform notwithstanding misregistration between different colours during printing. The macropixel filler is operative for maintaining the fractional areas of all colours and combinations within each dot uniform over the image notwithstanding misregistration between different colours .

...

...USE - For colour ink -jet printer.

...Title Terms: COLOUR ;

International Patent Class (Main): H04N-001/40 ...

... H04N-001/46

?

27/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

02860257 \*\*Image available\*\*  
COLOR CORRECTING DEVICE FOR FULL-COLOR IMAGE OUTPUT APPARATUS

PUB. NO.: 01-157857 [JP 1157857 A]  
PUBLISHED: June 21, 1989 (19890621)  
INVENTOR(s): YAMAGUCHI TOSHIYUKI  
APPLICANT(s): BROTHER IND LTD [000526] (A Japanese Company or Corporation),  
JP (Japan)  
APPL. NO.: 62-317847 [JP 87317847]  
FILED: December 15, 1987 (19871215)  
JOURNAL: Section: M, Section No. 872, Vol. 13, No. 420, Pg. 49,  
September 19, 1989 (19890919)

INTL CLASS: B41J-003/00; G06F-003/12; G06K-015/00; H04N-001/46

ABSTRACT

... a color image having good reproducibility by performing color corrections for the respective color areas **fractionated** on the basis of a plurality of conversion rules, thereby improving the degree of approximation...

... signal, a cyanogen binarizing device 14 for binarizing each digital color signal by utilizing a **dither** method, a **magenta** binarizing device 15 and a **yellow** binarizing device 16. This color correcting apparatus can select a conversion rule for each color...

27/3,K/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

02710445 \*\*Image available\*\*  
DIGITAL COLOR IMAGE PROCESSING METHOD

PUB. NO.: 01-008045 [JP 1008045 A]  
PUBLISHED: January 12, 1989 (19890112)  
INVENTOR(s): KOGURE MASAOKI  
APPLICANT(s): RICOH CO LTD [000674] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 62-163589 [JP 87163589]  
FILED: June 30, 1987 (19870630)  
JOURNAL: Section: M, Section No. 818, Vol. 13, No. 177, Pg. 89, April  
26, 1989 (19890426)

INTL CLASS: B41J-003/00; H04N-001/46

ABSTRACT

PURPOSE: To prevent hue fading and maintain high quality by processing a pattern of **halftone** density based on black color after UCR processing (removal of a foundation color) in such a manner that a maximum area **percentage** may be less than 100...

... 95 conversion processing circuit 21 is provided, and an area exceeding 90% of coverage as **yellow** Y, **magenta** M and **cyan** C is not to be used in a pattern of black area scale after UCR...

... black signal after UCR processing is processed for conversion so that 100% of the area **percentage** may not be provided and the maximum area

percentage be limited to about 90% with the remaining percentage maintained as a blank area. This blank area keeps residual sticking toner colors such as yellow Y, magenta M and cyan C, thus being able to express tones of delicate hue.

27/3,K/3 (Item 1 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2004 Thomson Derwent. All rts. reserv.

009659737 \*\*Image available\*\*  
 WPI Acc No: 1993-353288/199345  
 Related WPI Acc No: 1995-265155; 1995-265159; 1996-221469; 1996-467010;  
 1999-227986; 2001-101319  
 XRPX Acc No: N93-272499

Colour generation appts. e.g. for dot-on-dot sheet-medium printer e.g.  
 colour halftone system - has device for causing medium to appear  
 coloured according to information from colour image processed by  
 programmed information processor

Patent Assignee: HEWLETT-PACKARD CO (HEWP )  
 Inventor: DILLINGER P H  
 Number of Countries: 006 Number of Patents: 008  
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 569206	A2	19931110	EP 93303436	A	19930430	199345 B
JP 6038033	A	19940210	JP 93128107	A	19930430	199411
US 5377024	A	19941227	US 92878931	A	19920504	199506
EP 569206	A3	19940330				199521
US 5537228	A	19960716	US 92878931	A	19920504	199634
			US 94338291	A	19941114	
EP 569206	B1	20000301	EP 93303436	A	19930430	200016
			EP 96111747	A	19930430	
DE 69327917	E	20000406	DE 627917	A	19930430	200024
			EP 93303436	A	19930430	
JP 3375176	B2	20030210	JP 93128107	A	19930430	200314

Priority Applications (No Type Date): US 92878931 A 19920504; US 94338291 A 19941114

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 569206	A2	E	69	H04N-001/46	
Designated States (Regional): DE FR GB IT					
JP 6038033	A			H04N-001/40	
US 5377024	A		57		
US 5537228	A		52	H04N-001/46	Cont of application US 92878931
					Cont of patent US 5377024
EP 569206	B1	E			Related to application EP 96111747
					Related to patent EP 739126
Designated States (Regional): DE FR GB IT					
DE 69327917	E			H04N-001/46	Based on patent EP 569206
JP 3375176	B2		53	H04N-001/60	Previous Publ. patent JP 6038033
Colour generation appts. e.g. for dot-on-dot sheet-medium printer e.g.					
colour halftone system...					

...Abstract (Basic): the medium to appear coloured includes a gray scale subsystem to achromatically suppress a stated fraction of the reflection. At least two device primary subsystem (C, M and Y [and K...

...A programmed processor (43-56, 343-356, 357) resolves the desired rendition information into Fraction -Black (K), Fraction colorant



(N, N1, N2) and hue (H). **Fraction** -Black (K) information is applied exclusively to control only the gray-scale subsystem (K) **Fraction** Colourant (N) to control only the device primary subsystem...

...and hue (H) to select a dominant and a subordinate primary subsystem to obtain the **Fraction** Colourant (N...

...Abstract (Equivalent): with a visible medium, and for use with desired-colour information, in the form of **red** -, **green** - and **blue** -colorant input data from a colour-image source; said apparatus comprising...

...A) selecting values in said reference table that substantially correspond to the **red** -, **green** - and **blue** -colorant input data...

...B) finding, in the same reference table, output **red** -, **green** - and **blue** -colorant output values that correspond to said colorant input data, and...

...Title Terms: **HALFTONE** ;

International Patent Class (Main): **H04N-001/40** ...

... **H04N-001/46** ...

... **H04N-001/60**

**27/3,K/4** (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009366597 \*\*Image available\*\*

WPI Acc No: 1993-060076/199308

XRFX Acc No: N93-045873

**Electronic colour atlas system for multi-colour printing - uses entered colour coordinates to provide raster percentage values for each printing colour via interpolation**

Patent Assignee: GRETAG AG (GRET ); GRETAG-MACBETH AG (GRET )

Inventor: OTT H; SENN T; ZIMMERMANN B

Number of Countries: 009 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 528094	A1	19930224	EP 91810662	A	19910820	199308	B
CA 2076312	A	19930221	CA 2076312	A	19920818	199319	
JP 5227422	A	19930903	JP 92245862	A	19920820	199340	
US 5530563	A	19960625	US 92916711	A	19920722	199631	
EP 528094	B1	19971015	EP 91810662	A	19910820	199746	
DE 59108877	G	19971120	DE 508877	A	19910820	199801	
			EP 91810662	A	19910820		
US 6084693	A	20000704	US 92916711	A	19920722	200036	
			US 96591304	A	19960125		
CA 2076312	C	20030218	CA 2076312	A	19920818	200327	

Priority Applications (No Type Date): EP 91810662 A 19910820

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 528094 A1 G 27 H04N-001/46

Designated States (Regional): CH DE FR GB IT LI

CA 2076312 A G03F-005/22

JP 5227422 A H04N-001/40

US 5530563 A H04N-001/46

EP 528094 B1 G 31 H04N-001/46

Designated States (Regional): CH DE FR GB IT LI  
DE 59108877 G H04N-001/46 Based on patent EP 528094  
US 6084693 A H04N-001/46 Div ex application US 92916711  
Div ex patent US 5530563  
CA 2076312 C E G03F-005/22

... uses entered colour coordinates to provide raster percentage values for each printing colour via interpolation

...Abstract (Basic): atlas (300), with a number of colour fields (301), having stepped nominal surface coverage raster **percentage** values, to be scanned. The defined colour locations of the colour fields (301) are stored together with their raster **percentage** values, with the colour coordinates of a required colour entered in the processor, to allow the corresponding raster **percentage** values determined using a regression method...

...USE - For offset printing using **cyan** , **magenta** , **yellow** and black printing colours...

...Abstract (Equivalent): Process for determining the **half - tone percentages** of the individual printing colours necessary to obtain a given target colour specification in autotype multicolour printing, in particular in four-colour offset printing using the printing colours **cyan** , **magenta** , **yellow** and black, by means of a colour atlas having a number of colour fields with known graduations in the **half - tone percentages** of the individual printing colours, whereby the colour specifications defined by colour coordinates of the colour fields are determined and, together with the known **half - tone percentages** of the colour fields, stored in reciprocally associated form and the **half - tone percentages** to be found for the given target colour specifications are determined on the basis of...

...the target colour specification by interpolation from the stored colour coordinates and the associated stored **half - tone percentages** of the colour fields, characterised in that a new colour atlas is first produced on the basis of a preselected **half - tone percentage** of a preselected printing colour, which new colour atlas has a smaller number of colour...

...calculation method in which an approximation is respectively obtained for the relationship between the stored **half - tone percentages** and the stored colour coordinates of the colour fields in the vicinity of the preselected **half - tone percentage** of the selected printing colour by approximation functions in such a way that, relative to the preselected **half - tone percentage** in the selected printing colour, stored colour coordinates having a larger colour difference are taken ...

...weighted best-fit calculation method in which an approximation for the relationship between the stored **half - tone percentages** and the stored colour coordinates of the colour fields is obtained in the vicinity of...

...Abstract (Equivalent): Process for determining the **halftone percentage** values of individual priming inks which correspond to a given desired colour location during multiple...

...printing using a colour atlas which includes: a plurality of colour fields having known graduated **halftone percentage** values of the individual priming inks, said process comprising the steps of...

...storing the colour locations of the colour fields together with the

known graduated **halftone percentage** values of the colour fields;  
and...

...determining **halftone percentage** values of the given desired colour location based on desired colour coordinates of the given desired colour location, said step of determining **halftone percentage** values further including the step of...

...interpolating the **halftone percentage** values of the given desired location from the stored colour coordinates and the stored **halftone percentage** values of the colour fields using a differential weighted compensating calculation, wherein a relationship between the stored **halftone percentage** values and the stored colour coordinates of the colour fields in a vicinity of the...

...Title Terms: **PERCENTAGE** ;

...International Patent Class (Main): **H04N-001/40** ...

... **H04N-001/46**

**27/3,K/5** (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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004817085

WPI Acc No: 1986-320426/198649

XRFX Acc No: N86-239034

**Matching hard copy colour to video display colour - manipulating MSW colour data to convert unreachable video colour data into reachable hard copy colour data**

Patent Assignee: TEKTRONIX INC (TEKT )  
Inventor: HOFFMANN G L; MCMANUS P A; HOFFMAN G L  
Number of Countries: 008 Number of Patents: 007  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 203448	A	19861203	EP 86106503	A	19860513	198649 B
JP 61277267	A	19861208	JP 86122061	A	19860527	198703
US 4670780	A	19870602	US 85737765	A	19850528	198724
CN 8602826	A	19861126				198743
CA 1262286	A	19891010				198947
EP 203448	B1	19930113	EP 86106503	A	19860513	199302
DE 3687476	G	19930225	DE 3687476	A	19860513	199309
			EP 86106503	A	19860513	

Priority Applications (No Type Date): US 85737765 A 19850528

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 203448 A E 12

Designated States (Regional): DE FR GB NL

EP 203448 B1 E 13 H04N-001/46

Designated States (Regional): DE FR GB NL

DE 3687476 G H04N-001/46 Based on patent EP 203448

...Abstract (Equivalent): A method for matching hardcopy colour printed with **cyan C, magenta M, yellow Y**, and black inks to video display colour displayed with **red R, green G, and blue B** light emissions, comprising the steps of: normalizing video display **RGB** data so that each data value is in a range from zero to one; transforming the normalized video display **RGB** data into MSW colour data where M is a binary mixture of CMY primaries needed to produce the **RGB** primary

closest in chromaticity to the video display colour, S is a single one of...

...a white related to the degree to which each of the maximum normalized video display **RGB** data values each equal one; manipulating the MSW data values falling outside a hardcopy colour...

...Abstract (Equivalent): Video **RGB** ( **red** - **green** - **blue** ) is converted into chromaticity coordinates in XYZ colour space. An explicit solution is achieved by defining a new MSW colour space which restricts the hardcopy colours to some **percentage** of one of the binary mixtures (M) of inks, some **percentage** of one of the single (S) inks, and some **percentage** of paper white (W...

...shifts due to interaction among the inks. The MSW values are then converted to CMY ( **cyan** - **magenta** - **yellow** ) values which are processed in accordance with an appropriate **dithering** algorithm for conversion into dots for printing on paper...

International Patent Class (Main): **H04N-001/46**

**27/3,K/6 (Item 4 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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004623156

WPI Acc No: 1986-126499/198620

XRPX Acc No: N86-093495

**Colour component enhancement for gravure printing - represents chromatic components of pixel to increase saturation of colour shades without changing hue**

Patent Assignee: CROSFIELD ELECTRONICS LTD (CROE )

Inventor: FRANKLIN P E; JOHNSON A J

Number of Countries: 004 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 181063	A	19860514	EP 85306218	A	19850902	198620 B
JP 61084162	A	19860428	JP 85198691	A	19850910	198623
US 4647963	A	19870303	US 85773919	A	19850909	198711
EP 181063	B	19900725				199030
DE 3578869	G	19900830				199036

Priority Applications (No Type Date): GB 8422988 A 19840912

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 181063 A E 20

Designated States (Regional): DE GB

EP 181063 B

Designated States (Regional): DE GB

...Abstract (Basic): if required. The colour components could be analogue or digital data representing colour densities or **half - tone** dot **percentages** , etc...

...Abstract (Equivalent): From each colour component i.e. **cyan**, **magenta**, **yellow** (c,y,m), respective quantities are subtracted which, when combined, corresp. to a grey level...

...International Patent Class (Additional): **H04N-001/46**

**27/3,K/7 (Item 5 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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003730748

WPI Acc No: 1983-726946/198331

XRPX Acc No: N83-135235

**Colour correction method using dry dot etching - uses colour chart in form of circular disc with twelve circular dye spots for aiding production of photographic masks**

Patent Assignee: ANONYMOUS (ANON )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
RD 231035	A	19830710				198331 B

Priority Applications (No Type Date): RD 83231035 A 19830620

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
RD 231035	A	3		

...Abstract (Basic): The dye spots (1-12) consist of the following colours: cold- **red** , **red** ; warm- **red** ; **yellow** ; warm- **green** ; **green** ; cold- **green** ; **cyan** ; cold- **blue** - **blue** ; warm- **blue** and **magenta** . By comparison of an isolated colour area with the various colour fields of the disc, it is possible to find a **half - tone** separation combination which in overlay exposure on a photographic silver halide emulsion film e.g...

...Colour perception is effected using a densitometer to measure, in the isolated area of the **halftone** separations, the integral density of a representative spot area, the density being expressed as a **percentage** dot value. The relation between the latter and primary colour hue is transformed into a computer language for programming a micro-computer. This allows calculation of colour value from the **percentages** of **cyan** , **magenta** and **yellow** dot values to derive a colour on the chart and an associated overlay exposure combination...

...International Patent Class (Additional): **H04N-000/01**

**27/3,K/8 (Item 6 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

003596631

WPI Acc No: 1983-E4830K/198314

XRPX Acc No: N83-058438

**Correction of colour reproduction in colour printer - monitoring component colours on CRT and generating corrected values for yellow , magenta and cyan**

Patent Assignee: DAINIPPON SCREEN SEIZO KK (DNIS )

Inventor: INOUE T; NISHIDA T; YAMADA M

Number of Countries: 005 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3233427	A	19830331	DE 3233427	A	19820909	198314 B
GB 2106350	A	19830407	GB 8225573	A	19820908	198314
FR 2512974	A	19830318				198316
US 4468692	A	19840828	US 82412725	A	19820830	198437
GB 2106350	B	19850710				198528
IL 66747	A	19850830				198543
DE 3233427	C	19880128				198804

Priority Applications (No Type Date): JP 81144792 A 19810916

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 3233427	A		25		

... monitoring component colours on CRT and generating corrected values  
for yellow , magenta and cyan

...Abstract (Basic): Digital prim. colour signals, **yellow** , **magenta** ,  
**cyan** , are entered in tabulated form into memories and represent **half**  
**tone** values. Density values are generated by successive additions and  
the resulting values entered into memory. The digital signals are also  
converted into values that represent a **percentage** of the surface  
area, using converter stages...

...Title Terms: **YELLOW** ;

...International Patent Class (Additional): H04N-001/40

?

File 348:EUROPEAN PATENTS 1978-2004/Jan W03

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040115,UT=20040108

(c) 2004 WIPO/Univentio

? ds

Set	Items	Description
S1	485516	(FILTER? OR SCREEN?)
S2	10105	(HALF()TON? OR DITHER? OR ERROR()DIFFUS? OR HALFTON?)
S3	289	S1(7N)S2(7N)(INPUT OR ORIGINAL)(7N)(OUTPUT OR PRINT?)
S4	565905	(TINT? OR SHADE? OR SPOT OR CHERRY()APPLE OR CHERRY OR ROSE OR RED OR BRICK OR GREEN()YELLOW OR MAROON OR TONE OR GRADAT- ION? OR HUE? OR LIGHT OR DARK)
S5	284709	(MAGENTA OR CYAN OR RED OR GREEN OR BLUE OR YELLOW OR RGB - OR CMYK )
S6	394800	PERCENT? OR FRACTION?
S7	582916	(COLOR? OR COLOUR? OR COLORANT? OR COLOURANT? OR INK? OR D- YE?? OR SHADE?? OR TINT?? OR SPOT OR TONE?? OR GRADATION? OR - HUE?? OR CONTRAST???)
S8	421	S1(7N)BITMAP?
S9	404836	(TINT? OR SHADE? OR GRADATION? OR SPOT OR TONE? OR HUE? OR COLOR? OR COLOUR? OR COLOURANT? OR COLORANT?)
S10	829	S2(S)S6
S11	409710	(COLOR? OR COLOUR? OR COLOURANT? OR COLORANT? OR TINT? OR - TONE? OR SHADE? OR GRADATION? OR INK?)
S12	418052	(COLOR? OR INK? OR COLOUR? OR COLORANT? OR COLOURANT? OR T- INT? OR TONE? OR SHAD??? OR GRADATION?)
S13	275	S12(S)(COMBIN? OR MERG? OR JOIN? OR BLEND?)(S)S1(S)S2
S14	326	AU= (COOK, R? OR HYLANDS, D? OR BLONDAL, D? OR COOK R? OR - HYLANDS D? OR BLONDAL D?)
S15	53969	IC=H04N?
S16	22	S13(10N)S6
S17	17	S16 AND S15
S18	2	S17 AND AD=19990830:20040120/PR
S19	15	S17 NOT S18
S20	2	S3(S)S4(S)S5(S)S6
S21	2	S20 NOT S19
S22	1	S8(S)S10
S23	1	S22 NOT (S20 OR S18)
S24	4	S2 AND S14
S25	3	S24 NOT (S22 OR S20 OR S18)
S26	10281	S5(S)S6(S)S7
S27	240	S26(S)PRINT?(10N)IMAG?
S28	38	S27 AND S15
S29	1	S28(S)SEPARAT?(10N)(COMBIN? OR MERG? OR BLEND? OR JOIN?)
S30	1	S29 NOT (S24 OR S22 OR S20 OR S18)

19/3,K/1 (Item 1 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01015122

**Halftone screen and method for making same**  
**Halbtonraster und Herstellungsverfahren dafur**  
**Trame de demi-teintes et son procede de fabrication**

PATENT ASSIGNEE:

AGFA-GEVAERT N.V., (200390), Septestraat 27, 2640 Mortsel, (BE),  
(Proprietor designated states: all)

INVENTOR:

Delabastita, Paul, c/o Agfa-Gevaert N.V., IIE 3800, Septestraat 27, 2640  
Mortsel, (BE)

Van Hunsel, Johan, c/o Agfa-Gevaert N.V., IIE 3800, Septestraat 27, 2640  
Mortsel, (BE)

Van Cauwenberge, Jan, c/o Agfa-Gevaert N.V., IIE 3800, Septestraat 27,  
2640 Mortsel, (BE)

PATENT (CC, No, Kind, Date): EP 910206 A1 990421 (Basic)  
EP 910206 B1 011010

APPLICATION (CC, No, Date): EP 98204294 950428;

PRIORITY (CC, No, Date): EP 98204294 950428

DESIGNATED STATES: BE; DE; FR; GB; NL

RELATED PARENT NUMBER(S) - PN (AN):

EP 740457 (EP 95201096)

INTERNATIONAL PATENT CLASS: H04N-001/405

ABSTRACT WORD COUNT: 91

NOTE:

Figure number on first page: 6

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199916	429
CLAIMS B	(English)	200141	366
CLAIMS B	(German)	200141	321
CLAIMS B	(French)	200141	444
SPEC A	(English)	199916	6322
SPEC B	(English)	200141	6202
Total word count - document A			6752
Total word count - document B			7333
Total word count - documents A + B			14085

INTERNATIONAL PATENT CLASS: H04N-001/405

...SPECIFICATION dot diameter (expressed in micron) of round dots in  
periodic halftones as a function of **screen** frequency (in lpi) at  
different dot **percentages** . Table I shows that, if a **halftone screen**  
is used with a line ruling of 120 lpi, this 40 micron halftone dot on...

...SPECIFICATION dot diameter (expressed in micron) of round dots in  
periodic halftones as a function of **screen** frequency (in lpi) at  
different dot **percentages** . Table I shows that, if a **halftone screen**  
is used with a line ruling of 120 lpi, this 40 micron halftone dot on...

19/3,K/2 (Item 2 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.



00821381

**Method for calculating color gamuts**

**Verfahren zur Berechnung von Farbtonbereichen**

**Procede pour calculer des gammes de couleurs**

**PATENT ASSIGNEE:**

AGFA-GEVAERT, (200395), Septestraat 27, 2640 Mortsel, (BE), (Proprietor designated states: all)

**INVENTOR:**

Mahy, Marc, c/o Agfa-Gevaert N.V., IIE 3800, Septestraat 27, 2640 Mortsel, (BE)

PATENT (CC, No, Kind, Date): EP 763930 A1 970319 (Basic)  
EP 763930 B1 021016

APPLICATION (CC, No, Date): EP 96202418 960830;

PRIORITY (CC, No, Date): EP 95114591 950915

DESIGNATED STATES: BE; DE; FR; GB; NL

INTERNATIONAL PATENT CLASS: H04N-001/60

ABSTRACT WORD COUNT: 47

**NOTE:**

Figure number on first page: 4

LANGUAGE (Publication,Procedural,Application): English; English; English

**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	469
CLAIMS B	(English)	200242	542
CLAIMS B	(German)	200242	469
CLAIMS B	(French)	200242	611
SPEC A	(English)	EPAB97	7909
SPEC B	(English)	200242	7901
Total word count - document A			8380
Total word count - document B			9523
Total word count - documents A + B			17903

INTERNATIONAL PATENT CLASS: H04N-001/60

...SPECIFICATION are random, the Neugebauer equations can be calculated from the Demichel equations that predict the **fraction** of each **combination** of the three **inks** as a function of their respective dot **percentages** c1)), c2)) and c3)), and this leads to the Neugebauer equations in their most often encountered form: in which c1)), c2)) and c3)) represent the dot **percentages** of the three **inks** . The equations for the Y and Z values are obtained by replacing the X values...

19/3,K/3 (Item 3 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

00821380

**Color seperation method**

**Farbtrennungsverfahren**

**Procede de separation de couleur**

**PATENT ASSIGNEE:**

AGFA-GEVAERT, (200395), Septestraat 27, 2640 Mortsel, (BE), (Proprietor designated states: all)

**INVENTOR:**

Mahy, Marc, c/o Agfa-Gevaert N.V., IIE 3800, Septestraat 27, 2640 Mortsel, (BE)

PATENT (CC, No, Kind, Date): EP 763929 A1 970319 (Basic)  
EP 763929 B1 021211

APPLICATION (CC, No, Date): EP 96202398 960829;  
PRIORITY (CC, No, Date): EP 95202499 950915  
DESIGNATED STATES: BE; DE; FR; GB; NL  
INTERNATIONAL PATENT CLASS: H04N-001/60  
ABSTRACT WORD COUNT: 42  
NOTE:

Figure number on first page: 5

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	445
CLAIMS B	(English)	200250	498
CLAIMS B	(German)	200250	466
CLAIMS B	(French)	200250	605
SPEC A	(English)	EPAB97	7600
SPEC B	(English)	200250	7544
Total word count - document A			8047
Total word count - document B			9113
Total word count - documents A + B			17160

INTERNATIONAL PATENT CLASS: H04N-001/60

...SPECIFICATION is random, the Neugebauer coefficients can be calculated from the Demichel equations that predict the **fraction** of each **combination** of the three **inks** as a function of their respective dot **percentages** c1)), c2)) and c3)) : Substitution of the Demichel equations in the Neugebauer equations and rearranging...

19/3,K/4 (Item 4 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00821369

Colour separation method and apparatus for same  
Farbtrennungsverfahren und -vorrichtung  
Procede et appareil de separation de couleur

PATENT ASSIGNEE:

AGFA-GEVAERT N.V., (200390), Septestraat 27, 2640 Mortsel, (BE),  
(Proprietor designated states: all)

INVENTOR:

Mahy, Marc c/o Agfa-Gevaert, IIE 3800, Septestraat 27, 2640 Mortsel, (BE)  
PATENT (CC, No, Kind, Date): EP 763928 A1 970319 (Basic)  
EP 763928 B1 011010

APPLICATION (CC, No, Date): EP 96200213 960131;  
PRIORITY (CC, No, Date): EP 95202499 950915  
DESIGNATED STATES: BE; DE; FR; GB; NL  
INTERNATIONAL PATENT CLASS: H04N-001/60  
ABSTRACT WORD COUNT: 82  
NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	597
CLAIMS B	(English)	200141	595
CLAIMS B	(German)	200141	534
CLAIMS B	(French)	200141	714

SPEC A	(English)	EPAB97	6247
SPEC B	(English)	200141	6253
Total word count - document A			6845
Total word count - document B			8096
Total word count - documents A + B			14941

INTERNATIONAL PATENT CLASS: H04N-001/60

...SPECIFICATION is random, the Neugebauer coefficients can be calculated from the Demichel equations that predict the **fraction** of each **combination** of the three **inks** as a function of their respective dot **percentages** c1)), c2)) and c3)) : Substitution of the Demichel equations in the Neugebauer equations and rearranging...

19/3,K/5 (Item 5 from file: 348)  
 DIALOG(R)File 348:EUROPEAN PATENTS  
 (c) 2004 European Patent Office. All rts. reserv.

00793830

**Printing plate and method for the reproduction of images**

**Druckplatte und Verfahren zur Bildreproduktion**

**Plache d'impression et procede de reproduction d'images**

PATENT ASSIGNEE:

AGFA-GEVAERT N.V., (200390), Septestraat 27, 2640 Mortsel, (BE),  
 (applicant designated states: BE;DE;FR;GB;NL)

INVENTOR:

Delabastita, Paul, c/o Agfa-Gevaert N.V.,, IIE 3800, Septestraat 27,,  
 B-2640 Mortsel, (BE)

Daels, Katrien, c/o Agfa-Gevaert N.V.,, IIE 3800, Septestraat 27,, B-2640  
 Mortsel,, (BE)

Van Hunsel, Johan, c/o Agfa-Gevaert N.V.,, IIE 3800, Septestraat 27,,  
 B-2640 Mortsel,, (BE)

Van Cauwenberge, Jan, c/o Agfa-Gevaert N.V.,, IIE 3800, Septestraat 27,,  
 B-2640 Mortsel, (BE)

PATENT (CC, No, Kind, Date): EP 740457 A1 961030 (Basic)  
 EP 740457 B1 990721

APPLICATION (CC, No, Date): EP 95201096 950428;

PRIORITY (CC, No, Date): EP 95201096 950428

DESIGNATED STATES: BE; DE; FR; GB; NL

INTERNATIONAL PATENT CLASS: H04N-001/405

ABSTRACT WORD COUNT: 88

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9929	671
CLAIMS B	(German)	9929	615
CLAIMS B	(French)	9929	794
SPEC B	(English)	9929	5756
Total word count - document A			0
Total word count - document B			7836
Total word count - documents A + B			7836

INTERNATIONAL PATENT CLASS: H04N-001/405

...SPECIFICATION dot diameter (expressed in micron) of round dots in periodic halftones as a function of **screen** frequency (in lpi) at different dot **percentages** . Table I shows that, if a **halftone screen** is used with a line ruling of 120 lpi, this 40 micron halftone dot on...

19/3,K/6 (Item 6 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00783555

Method and apparatus for generating halftone image  
Verfahren und Gerat zur Erzeugung halbtongerasterter Bilder  
Procede et appareil pour la generation d'images en demi-teintes  
PATENT ASSIGNEE:

Dainippon Screen Mfg. Co., Ltd., (507661), 1-1, Tenjinkitamachi  
Teranouchi-Agaru 4-chome Horikawa-Dori, Kamikyo-ku Kyoto 602, (JP),  
(applicant designated states: DE;FR;GB)

INVENTOR:

Sano, Hiroshi, c/o Dainippon Screen Mfg. Co., Ltd., 1-1, Tenjinkitamachi,  
Teranouchi-agaru, 4-chome, Horikawa-dori, Kamikyo-ku, Kyoto, (JP)  
Hirawa, Takahide, c/o Dainippon Screen Mfg Co, Ltd, 1-1, Tenjinkitamachi,  
Teranouchi-agaru, 4-chome, Horikawa-dori, Kamikyo-ku, Kyoto, (JP)  
Nakamura, Yasunori, Dainippon Screen Mfg Co, Ltd, 1-1, Tenjinkitamachi,  
Teranouchi-agaru, 4-chome, Horikawa-dori, Kamikyo-ku, Kyoto, (JP)

LEGAL REPRESENTATIVE:

WILHELMS, KILIAN & PARTNER Patentanwalte (100601), Eduard-Schmid-Strasse  
2, 81541 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 731597 A2 960911 (Basic)  
EP 731597 A3 970226

APPLICATION (CC, No, Date): EP 96102365 960216;

PRIORITY (CC, No, Date): JP 9557933 950221

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: H04N-001/405

ABSTRACT WORD COUNT: 124

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	1569
SPEC A	(English)	EPAB96	8492
Total word count - document A			10061
Total word count - document B			0
Total word count - documents A + B			10061

INTERNATIONAL PATENT CLASS: H04N-001/405

...SPECIFICATION the multi-tone image data so that a halftone dot is formed in the each **halftone** dot area to have a desired **halftone** dot **percent** specified by the multi- **tone** image data; selection means for selecting one of the plurality of corrected threshold matrices according

...from the selected corrected threshold matrix with the multi-tone image data, thereby generating the **halftone** image signal.

The desired halftone dot **percent** corresponding to multi-tone image data  $I_o$  is given by  $M(I_o)/M_t$ , where  $M...$

...CLAIMS the multi-tone image data so that a halftone dot is formed in said each **halftone** dot area to have a desired **halftone** dot **percent** specified by the multi- **tone** image data;

selection means for selecting one of said plurality of corrected threshold matrices according...

19/3,K/7 (Item 7 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00718035

**Tone dependent rosette structures in multi layer screening by phase modulation**

**Tonabhängige Rosettenstrukturen bei der Mehrschichthalbtonrasterung durch Phasenmodulation**

**Structures de rosettes dependantes de la tonalite pour l'obtention de trames multi-couches par modulation de phase**

PATENT ASSIGNEE:

AGFA-GEVAERT N.V., (200390), Septestraat 27, 2640 Mortsel, (BE),  
(Proprietor designated states: all)

INVENTOR:

Delabastita, Paul, c/o Agfa-Gevaert N.V. DIE 3800, Septestraat 27, B-2640 Mortsel, (BE)

Daels, Katrien, c/o Agfa-Gevaert N.V., IIE 3000, Septestraat 27, B-2640 Mortsel, (BE)

PATENT (CC, No, Kind, Date): EP 680193 A1 951102 (Basic)  
EP 680193 B1 000712

APPLICATION (CC, No, Date): EP 94201150 940427;

PRIORITY (CC, No, Date): EP 94201150 940427

DESIGNATED STATES: BE; DE; FR; GB; NL

INTERNATIONAL PATENT CLASS: H04N-001/40 ; H04N-001/52

ABSTRACT WORD COUNT: 83

NOTE:

Figure number on first page: 10A

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200028	556
CLAIMS B	(German)	200028	459
CLAIMS B	(French)	200028	628
SPEC B	(English)	200028	8254
Total word count - document A			0
Total word count - document B			9897
Total word count - documents A + B			9897

INTERNATIONAL PATENT CLASS: H04N-001/40 ...

... H04N-001/52

19/3,K/8 (Item 8 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00691218

**Image reproducing system**

**Bildwiedergabesystem**

**Systeme de reproduction d'images**

PATENT ASSIGNEE:

Fuji Photo Film Co., Ltd., (202402), 210 Nakanuma Minamiashigara-shi,  
Kanagawa-ken, (JP), (applicant designated states: DE;FR;GB)

INVENTOR:

Ohtsuka, Shuichi, c/o Fuji Photo Film Co., Ltd., 798 Miyanodai,  
Kaisei-machi, Ashigarakami-gun, Kanagawa-ken 258, (JP)

Yoda, Akira, c/o Fuji Photo Film Co., Ltd., 798 Miyanodai, Kaisei-machi,  
Ashigarakami-gun, Kanagawa-ken 258, (JP)  
Usami, Yoshinori, c/o Fuji Photo Film Co., Ltd., 798 Miyanodai,  
Kaisei-machi, Ashigarakami-gun, Kanagawa-ken 258, (JP)

LEGAL REPRESENTATIVE:

Grunecker, Kinkeldey, Stockmair & Schwanhauser Anwaltssozietat (100721)  
, Maximilianstrasse 58, 80538 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 660590 A2 950628 (Basic)  
EP 660590 A3 950823  
EP 660590 B1 981202

APPLICATION (CC, No, Date): EP 94120446 941222;

PRIORITY (CC, No, Date): JP 93327339 931224; JP 94205255 940830

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: H04N-001/60

ABSTRACT WORD COUNT: 134

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9849	478
CLAIMS B	(German)	9849	405
CLAIMS B	(French)	9849	556
SPEC B	(English)	9849	8107
Total word count - document A			0
Total word count - document B			9546
Total word count - documents A + B			9546

INTERNATIONAL PATENT CLASS: H04N-001/60

...SPECIFICATION of an image which is outputted from the image output unit  
14B and has a **halftone** dot **percentage** which is close to 50 % where  
the periodicity is prominent. Since it is known that...

19/3,K/9 (Item 9 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

00639693

Method for automatic trap selection for correcting for plate  
misregistration in colour printing

Verfahren zur automatischen Bestimmung von Farbtrennflächen zur Korrektur  
von Fehlüberdeckungen beim Mehrplatten-Farbdruck

Procede pour determiner automatiquement des bordures de couleur pour  
corriger une fausse registration de plaques d'impression en couleurs

PATENT ASSIGNEE:

Bayer Corporation, (923418), Agfa Division, 200 Ballardvale Street,  
Wilmington, MA 01887-1069, (US), (applicant designated states:  
BE;DE;FR;GB)

INVENTOR:

Dermer, Richard A., 4 Enfield Drive, Andover, MA 01810, (US)

LEGAL REPRESENTATIVE:

Strasse, Joachim, Dipl.-Ing. (11613), Strasse & Hofstetter, Balanstrasse  
57, 81541 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 620534 A1 941019 (Basic)  
EP 620534 B1 990609

APPLICATION (CC, No, Date): EP 94104904 940329;

PRIORITY (CC, No, Date): US 40716 930331

DESIGNATED STATES: BE; DE; FR; GB

INTERNATIONAL PATENT CLASS: G06K-015/00; H04N-001/46

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9923	772
CLAIMS B	(German)	9923	709
CLAIMS B	(French)	9923	851
SPEC B	(English)	9923	13123
Total word count - document A			0
Total word count - document B			15455
Total word count - documents A + B			15455

...INTERNATIONAL PATENT CLASS: H04N-001/46

...SPECIFICATION as "red" and "blue".

Process colors are created by printing layers of the PROCESS PRIMARY COLORS cyan, magenta, yellow and black in different percentages, possibly in combination with spot colors, embossing or varnishes. Each layer is printed by a separate printing plate. During the printing ...

...each element in the tuple is a number ranging from 0 to 100 giving the percentage of that color. For example, a green made up of 100 percent cyan and 100 percent yellow is represented as (100,0,100,0). Since each point...

19/3,K/10 (Item 10 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00636844

Automatic determination of boundaries between polygonal structure elements of different colour in a planar graphic image

Automatische Bestimmung von Trennlinien zwischen polygonalen Strukturelementen verschiedener Farbe innerhalb eines ebenen Bildes

Determination automatique de bordures entre structures polygonales de couleur differente dans une image graphique planare

PATENT ASSIGNEE:

Bayer Corporation, (923418), Agfa Division, 200 Ballardvale Street, Wilmington, MA 01887-1069, (US), (applicant designated states: BE;DE;FR;GB)

INVENTOR:

Dermer, Richard A., 4 Enfield Drive, Andover, MA 01810, (US)  
Reifenstein, III Edward C., 38 Langdon Street, Cambridge, MA 02138, (US)

LEGAL REPRESENTATIVE:

Strasse, Joachim, Dipl.-Ing. (11613), Strasse & Hofstetter, Balanstrasse 57, 81541 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 618546 A1 941005 (Basic)  
EP 618546 B1 990609

APPLICATION (CC, No, Date): EP 94104903 940329;

PRIORITY (CC, No, Date): US 40559 930331

DESIGNATED STATES: BE; DE; FR; GB

INTERNATIONAL PATENT CLASS: G06K-015/00; H04N-001/46

ABSTRACT WORD COUNT: 109

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9923	772
CLAIMS B	(German)	9923	783

CLAIMS B	(French)	9923	879
SPEC B	(English)	9923	13172
Total word count	- document A		0
Total word count	- document B		15606
Total word count	- documents A + B		15606

...INTERNATIONAL PATENT CLASS: H04N-001/46

...SPECIFICATION as "red" and "blue".

Process colors are created by printing layers of the PROCESS PRIMARY COLORS cyan, magenta, yellow and black in different percentages, possibly in combination with spot colors, embossing or varnishes. Each layer is printed by a separate printing plate. During the printing ...

...each element in the tuple is a number ranging from 0 to 100 giving the percentage of that color. For example, a green made up of 100 percent cyan and 100 percent yellow is represented as (100,0,100,0). Since each point...

19/3,K/11 (Item 11 from file: 348)  
 DIALOG(R)File 348:EUROPEAN PATENTS  
 (c) 2004 European Patent Office. All rts. reserv.

00636843

Correcting plate misregistration in colour printing of images defined in a page description language

Korrektur von Druckplatten-Fehlüberdeckungen beim Farbdruck von in einer Seitenbeschreibungssprache definierten Bildern

Correction d'une fausse registration de plaques pour impression en couleurs d'images definies dans une langue descriptive de pages

PATENT ASSIGNEE:

Bayer Corporation, (923418), Agfa Division, 200 Ballardvale Street,  
 Wilmington, MA 01887-1069, (US), (applicant designated states:  
 BE;DE;FR;GB)

INVENTOR:

Dermer, Richard A., 4 Enfield Drive, Andover, MA 01810, (US)

LEGAL REPRESENTATIVE:

Strasse, Joachim, Dipl.-Ing. (11613), Strasse & Hofstetter, Balanstrasse  
 57, 81541 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 618718 A1 941005 (Basic)  
 EP 618718 B1 990609

APPLICATION (CC, No, Date): EP 94104902 940329;

PRIORITY (CC, No, Date): US 40724 930331

DESIGNATED STATES: BE; DE; FR; GB

INTERNATIONAL PATENT CLASS: H04N-001/46 ; G06K-015/00

ABSTRACT WORD COUNT: 137

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9923	843
CLAIMS B	(German)	9923	843
CLAIMS B	(French)	9923	1003
SPEC B	(English)	9923	13554
Total word count	- document A		0
Total word count	- document B		16243
Total word count	- documents A + B		16243



INTERNATIONAL PATENT CLASS: H04N-001/46 ...

...SPECIFICATION as "red" and "blue".

Process colors are created by printing layers of the PROCESS PRIMARY COLORS cyan, magenta, yellow and black in different percentages, possibly in combination with spot colors, embossing or varnishes. Each layer is printed by a separate printing plate. During the printing

...each element in the tuple is a number ranging from 0 to 100 giving the percentage of that color. For example, a green made up of 100 percent cyan and 100 percent yellow is represented as (100.0,100,0). Since each point...

19/3,K/12 (Item 12 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00375785

**Tonal conversion method for pictures.**

**Tonumwandlungsverfahren fur Bilder.**

**Procede de conversion de ton pour images.**

PATENT ASSIGNEE:

YAMATOYA & CO., LTD., (953240), 9-7, Toranomom 5-chome Minato-ku, Tokyo 105, (JP), (applicant designated states: DE;GB)

INVENTOR:

Numakura, Takashi, 1716 Wada, Tama-shi Tokyo 206, (JP)

Kitazawa, Susumu, 4-36, Inukura 2-chome Miyamae-ku, Kawasaki-shi

Kanagawa-ken 213, (JP)

Naya, Junichi, 7-2, Kitatakamori, Izumi-shi Miyagi-ken 981-31, (JP)

Numakura, Iwao, 1716 Wada, Tama-shi Tokyo 206, (JP)

LEGAL REPRESENTATIVE:

Joly, Jean-Jacques et al (39741), Cabinet Beau de Lomenie 158, rue de l'Universite, F-75340 Paris Cedex 07, (FR)

PATENT (CC, No, Kind, Date): EP 356328 A2 900228 (Basic)

EP 356328 A3 911016

EP 356328 B1 950215

APPLICATION (CC, No, Date): EP 89402309 890818;

PRIORITY (CC, No, Date): JP 88207326 880823

DESIGNATED STATES: DE; GB

INTERNATIONAL PATENT CLASS: H04N-001/40

ABSTRACT WORD COUNT: 97

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPBBF2	507
CLAIMS B	(English)	EPBBF2	486
CLAIMS B	(German)	EPBBF2	440
CLAIMS B	(French)	EPBBF2	492
SPEC A	(English)	EPBBF2	10380
SPEC B	(English)	EPBBF2	10346
Total word count - document A			10887
Total word count - document B			11764
Total word count - documents A + B			22651

INTERNATIONAL PATENT CLASS: H04N-001/40

...SPECIFICATION plates, and then converting the density value at a desired

point on an original continuous- **tone color** picture of each plate into a dot **percent** of a dot at the corresponding point on the **halftone** picture by using the thus-indicated dot **percent** , the density values measured through the respective filters or the density values adjusted in the...

...Similarly, the M plate and G filter are combined, and the Y plate and B **filter** .); and

(v) preparing the individual plates by using the dot **percents** , which have been obtained above for the respective plates, for the control of exposure for...

...SPECIFICATION plates, and then converting the density value at a desired point on an original continuous- **tone color** picture of each plate into a dot **percent** of a dot at the corresponding point on the **halftone** picture by using the thus-indicated dot **percent** , the density values measured through the respective filters or the density values adjusted in the...

...Similarly, the M plate and G filter are combined, and the Y plate and B **filter** .); and

(v) preparing the individual plates by using the dot **percents** , which have been obtained above for the respective plates, for the control of exposure for...

19/3,K/13 (Item 13 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00355393

**Method of and apparatus for forming halftone dots**  
**Verfahren und Vorrichtung zur Erzeugung von Halbtonpunkten**  
**Procede et appareil de formation de points demi-teintes**  
PATENT ASSIGNEE:

Dainippon Screen Mfg. Co., Ltd., (507661), 1-1, Tenjinkitamachi  
Teranouchi-Agaru 4-chome Horikawa-Dori, Kamikyo-ku Kyoto 602, (JP),  
(applicant designated states: DE;FR;GB)

INVENTOR:

Isono, Koichi c/o Dainippon Screen MFG. CO., LTD., Hikonechiku Jigyosho  
480-1, Takamiya-cho, Hikone-shi Shiga, (JP)  
Nakano, Masayuki Dainippon Screen MFG. CO., LTD., Hikonechiku Jigyosho  
480-1, Takamiya-cho, Hikone-shi Shiga, (JP)  
Nishigaito, Yoshiyuki Dainippon Screen MFG.CO.,LTD, Hikonechiku Jigyosho  
480-1, Takamiya-cho, Hikone-shi Shiga, (JP)

LEGAL REPRESENTATIVE:

WILHELMS, KILIAN & PARTNER Patentanwalte (100601), Eduard-Schmid-Strasse  
2, 81541 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 373449 A2 900620 (Basic)  
EP 373449 A3 921125  
EP 373449 B1 961016

APPLICATION (CC, No, Date): EP 89122223 891201;

PRIORITY (CC, No, Date): JP 88317347 881215

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: H04N-001/40 ; H04N-001/405

ABSTRACT WORD COUNT: 162

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text Language Update Word Count

CLAIMS A	(English)	EPABF1	909
CLAIMS B	(English)	EPAB96	785
CLAIMS B	(German)	EPAB96	621
CLAIMS B	(French)	EPAB96	890
SPEC A	(English)	EPABF1	4184
SPEC B	(English)	EPAB96	3706
Total word count - document A			5093
Total word count - document B			6002
Total word count - documents A + B			11095

INTERNATIONAL PATENT CLASS: H04N-001/40 ...

... H04N-001/405

...SPECIFICATION are assigned alternately to the groups G(sub 1) and G(sub 2) at the **halftone** -dot area rate of 50 **percent** or less. Similarly, four sequential values of the **screen** pattern data are assigned alternately to the groups G(sub 3) and G(sub 4) at the **halftone** -dot area rate of 51 **percent** or more. This is the same with the other **screen** pattern data P( sub(B)) and P( sub(C)). The three sets of screen pattern...

...SPECIFICATION are assigned alternately to the groups G( sub(1)) and G( sub(2)) at the **halftone** -dot area rate of 50 **percent** or less. Similarly, four sequential values of the **screen** pattern data are assigned alternately to the groups G( sub(3)) and G( sub(4)) at the **halftone** -dot area rate of 51 **percent** or more. This is the same with the other **screen** pattern data P( sub(B)) and P( sub(C)), The three sets of screen pattern...

19/3,K/14 (Item 14 from file: 348)  
 DIALOG(R)File 348:EUROPEAN PATENTS  
 (c) 2004 European Patent Office. All rts. reserv.

00268547

**Optimal color half-tone patterns for raster-scan images.**

**Optimale Halbtonfarbmuster fur Rasterabtastbilder.**

**Modeles demi-teintes optimaux en couleur pour des images balayees en trame.**

PATENT ASSIGNEE:

MINNESOTA MINING AND MANUFACTURING COMPANY, (300410), 3M Center, P.O. Box 33427, St. Paul, Minnesota 55133-3427, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Rylander, Richard L Minnesota Mining and, Manufacturing Company 2501 Hudson Road, St.Paul Minnesota 55133-3427, (US)

LEGAL REPRESENTATIVE:

Baillie, Iain Cameron et al (27951), c/o Ladas & Parry, Altheimer Eck 2, D-80331 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 254448 A2 880127 (Basic)  
 EP 254448 A3 900214  
 EP 254448 B1 931027

APPLICATION (CC, No, Date): EP 87305990 870707;

PRIORITY (CC, No, Date): US 889819 860724

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: H04N-001/46

ABSTRACT WORD COUNT: 128

LANGUAGE (Publication,Procedural,Application): English; English; English  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	796
CLAIMS B	(German)	EPBBF1	803
CLAIMS B	(French)	EPBBF1	935
SPEC B	(English)	EPBBF1	3764
Total word count - document A			0
Total word count - document B			6298
Total word count - documents A + B			6298

INTERNATIONAL PATENT CLASS: H04N-001/46

...ABSTRACT the chosen font(s) using computer integration over repeat cell areas to show which chosen **screens** give invariance of white **fraction** with off-set distance in the two directions (horizontal and vertical). This comparison is carried...

19/3,K/15 (Item 1 from file: 349)  
 DIALOG(R) File 349:PCT FULLTEXT  
 (c) 2004 WIPO/Univentio. All rts. reserv.

00217945

**METHOD AND APPARATUS FOR GENERATING DIGITAL, ANGLED HALFTONE SCREENS**  
**PROCEDE ET APPAREIL GENERANT DES ECRANS NUMERIQUES EN DEMIE-TEINTE A ANGLE**  
 Patent Applicant/Assignee:

ECRM,  
 Inventor(s):  
 TROXEL Donald E,  
 Patent and Priority Information (Country, Number, Date):  
 Patent: WO 9215170 A1 19920903  
 Application: WO 91US9130 19911205 (PCT/WO US9109130)  
 Priority Application: US 91691 19910225  
 Designated States: AT BE CA CH DE DK ES FR GB GR IT JP LU MC NL SE  
 Publication Language: English  
 Fulltext Word Count: 7972

Main International Patent Class: H04N-001/40

Fulltext Availability:  
 Detailed Description

Detailed Description

... complex example  
 where a=8, b=8, and N=2, a mapping array for a **screen** tile contains four **screen** dots (comprised of eight 50 **percent shadow** and highlight dots) and approximates a 45 degree **screen** angle. Pixel assignment to a particular screen dot group is indicated by assigning to each...

...tile an integer label, 0 through 7 in the illustrated embodiment, corresponding to the 50 **percent screen** dot to which it is assigned. (In the illustrated embodiment the eight 50 **percent screen** dots correspond to four highlight dots and four **shadow** dots,) In some instances, such as shown at 162a and 162b, a dot ...within the tile, however, as described above, when the plane is tiled, the full 50 **percent screen** dot is formed (from two or more tiles) and the tile boundary limitation can be...

?

21/3,K/1 (Item 1 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00352354

**Method for forming halftone data**

**Verfahren zur Produktion von Halbtondaten**

**Procede pour la production des donnees de demi-teintes**

**PATENT ASSIGNEE:**

FUJI PHOTO FILM CO., LTD., (202400), 210 Nakanuma Minami-Ashigara-shi,  
Kanagawa 250-01, (JP), (applicant designated states: DE;FR;GB)

**INVENTOR:**

Shimazaki, Osamu, 798, Miyanodai Kaisei-Machi, Ashigara-Kamigun Kanagawa,  
(JP)

**LEGAL REPRESENTATIVE:**

Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721)  
, Maximilianstrasse 58, 80538 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 363943 A2 900418 (Basic)

EP 363943 A3 901017

EP 363943 B1 970102

APPLICATION (CC, No, Date): EP 89118918 891011;

PRIORITY (CC, No, Date): JP 88258229 881013

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: H04N-001/40;

ABSTRACT WORD COUNT: 165

LANGUAGE (Publication,Procedural,Application): English; English; English

**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	203
CLAIMS B	(English)	EPAB97	344
CLAIMS B	(German)	EPAB97	292
CLAIMS B	(French)	EPAB97	377
SPEC A	(English)	EPABF1	5378
SPEC B	(English)	EPAB97	5291
Total word count - document A			5581
Total word count - document B			6304
Total word count - documents A + B			11885

...SPECIFICATION for forming halftone data including scanning of an original comprising color images of a continuous **tone** to obtain image signals, and using the image signals to fill the elements of a square dither matrix subdivided into four square subsections in order to form multicolor half **tone gradation** images formed by square dots comprising a matrix array of pixels which are reproducible by laser **printing**, and wherein each pixel corresponds to an element of the **dither** matrix. The method according to the invention takes into consideration the difference in **halftone screen percentage** of respective dots in order to avoid a **tone** jump when image signals are obtained by scanning an **original** comprising color images in continuous **tone**, and are superimposed with **halftone screen** signals which are electrically generated so as to form four-color separated **halftone gradation** images in C ( **cyan** ), M ( **magenta** ), Y ( **yellow** ) and K (black).

**2. Description of the Prior Art**

In the fields of printing and...

21/3,K/2 (Item 2 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00239735

Method of tint generation and apparatus therefor.

Farbtonerzeugungsverfahren und -vorrichtung.

Procede et appareil pour la generation de teintes.

PATENT ASSIGNEE:

Dainippon Screen Mfg. Co., Ltd., (507661), 1-1, Tenjinkitamachi  
Teranouchi-Agaru 4-chome Horikawa-Dori, Kamikyo-ku Kyoto 602, (JP),  
(applicant designated states: CH;DE;FR;GB;IT;LI;SE)

INVENTOR:

Yamamoto, Yoshihisa Dainippon Screen Mfg.Co.Ltd., Pat. Div. 1-1,  
Tenjinkitamachi, Teranouchi-Agaru, 4-chome Horikawa Dori, Kamikyo-ku  
Kyoto, (JP)  
Sarumaru, Masahiko, c/o Com System Co., Ltd. 1-25-22, Edobori, Nishi-ku  
Osaka, (JP)

LEGAL REPRESENTATIVE:

WILHELMS, KILIAN & PARTNER Patentanwalte (100601), Eduard-Schmid-Strasse  
2, W-8000 Munchen 90, (DE)

PATENT (CC, No, Kind, Date): EP 238976 A2 870930 (Basic)  
EP 238976 A3 890830  
EP 238976 B1 930804

APPLICATION (CC, No, Date): EP 87103844 870317;

PRIORITY (CC, No, Date): JP 8660442 860317

DESIGNATED STATES: CH; DE; FR; GB; IT; LI; SE

INTERNATIONAL PATENT CLASS: H04N-001/46;

ABSTRACT WORD COUNT: 96

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	951
CLAIMS B	(German)	EPBBF1	1252
CLAIMS B	(French)	EPBBF1	1679
SPEC B	(English)	EPBBF1	6380
Total word count - document A			0
Total word count - document B			10262
Total word count - documents A + B			10262

...SPECIFICATION The present invention relates to a method effecting the designation of tints to regions of an image, input in the form of contour line drawing, and apparatus therefor for producing color separation negatives or positives bearing uniform sized halftone dots (i.e., screen tint) in predetermined regions which correspond to those of an original image.

When producing such negatives or positives from an original image e.g. a map or a hand-drawn illustration, desired halftone-dot percentage is designated for respective regions thereof. In the case of color printing, such a designation of the halftone-dot percentage is performed for respective color separations of...

?

23/3,K/1 (Item 1 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01660489

**Halftone dot-growth technique**

**Verfahren zum Zuwachs von Halbtonrasterpunkten**

**Procede de croissance de points en demi-teintes**

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201212), 343 State Street, Rochester, New York  
14650, (US), (Applicant designated States: all)

INVENTOR:

Braun, Gustav J., Eastman Kodak Company, Patent Legal Staff, 343 State  
Street, Rochester, New York 14650-2201, (US)

Burns, Peter D., Eastman Kodak Company, Patent Legal Staff, 343 State  
Street, Rochester, New York 14650-2201, (US)

Spaulding, Kevin E., Eastman Kodak Company, Patent Legal Staff, 343 State  
Street, Rochester, New York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Weber, Etienne Nicolas et al (91684), Kodak Industrie, Departement  
Brevets, CRT, Zone Industrielle, 71102 Chalon sur Saone Cedex, (FR)

PATENT (CC, No, Kind, Date): EP 1365574 A2 031126 (Basic)

APPLICATION (CC, No, Date): EP 2003076416 030512;

PRIORITY (CC, No, Date): US 154546 020524

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK

INTERNATIONAL PATENT CLASS: H04N-001/405; H04N-001/40

ABSTRACT WORD COUNT: 169

NOTE:

Figure number on first page: 4

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200348	1001
SPEC A	(English)	200348	4355
Total word count - document A			5356
Total word count - document B			0
Total word count - documents A + B			5356

...SPECIFICATION There is a need to control the size of the dots in a pre-existing **halftone** bitmap. This **bitmap** could have been generated by a digital **screening** system (i.e., a RIP) or it could have been generated by scanning an optical...

...mind. As such, the dot pattern was created to produce a given density to dot **percentage** relationship tailored to the target output device. If this bitmap file were printed on an...

...dot-gain characteristics than the target device the density as a function of dot-area **percentage** will be different. Thus, in order to achieve the desired dot **percentage** to output density relationship of the target device, on a different device, the bitmap file...

...size (15). Preferably these blocks correspond to approximately the halftone cell size of the halftone **screen** used to create the **bitmap**. The dot-area **percentage** of these blocks is estimated using a low-pass filter, decimation, and interpolation process (15...

...high level description of this process (15) is shown in Fig. 2. The estimated dot- **percentages** for the original bitmap (Ain))) are converted to aim dot **percentages** Aaim)) using the dot-gain curve (G) (25) dictating the amount of gain required for the given input dot **percentage** (20). An example dot-gain function is shown in Figs. 3(a) and 3(b...

...The dot-gain relationship, is illustrated in two forms - Fig. 3a shows the output dot **percentage** as a function of the input dot **percentage** ; Fig. 3b. shows the actual dot-gain as a function of input dot **percentage**

Referring again to Fig. 1, an output bitmap (B) is initialized (30) to be equivalent...

?



25/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01274742

**SYSTEM AND METHOD FOR PRODUCING HALFTONED COLOR SEPARATIONS FOR AN OUTPUT IMAGING DEVICE**

**VERFAHREN UND VORRICHTUNG ZUM ERZEUGEN VON HALBTONGERASTERTEN FARBAUSZUGEN FUR EINE BILDAUSGABEVORRICHTUNG**

**SYSTEME ET PROCEDE DE PRODUCTION DE SEPARATIONS DE COULEURS EN DEMI-TONS POUR UN DISPOSITIF DE SORTIE**

PATENT ASSIGNEE:

Creo Inc., (3265361), 3700 Gilmore Way, Burnaby, British Columbia V5G 4M1  
, (CA), (Applicant designated States: all)

INVENTOR:

COOK, Robert , 3048 Mardale Road, North Vancouver, British Columbia V7R 1E, (CA)

HYLANDS, Dave , 48-7488 Mulberry Place, Burnaby, British Columbia V3N 5B4, (CA)

BLONDIAL, Daniel, J., 3654 Eton Street, Vancouver, British Columbia V5K 1K9, (CA)

LEGAL REPRESENTATIVE:

Hofmann, Harald et al (157101), Sonnenberg Fortmann, Patent- und Rechtsanwalte, Herzogspitalstrasse 10a, 80331 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1219107 A1 020703 (Basic)

WO 200117231 010308

APPLICATION (CC, No, Date): EP 2000959630 000830; WO 2000US23838 000830

PRIORITY (CC, No, Date): US 385335 990830

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04N-001/46

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

**SYSTEM AND METHOD FOR PRODUCING HALFTONED COLOR SEPARATIONS FOR AN OUTPUT IMAGING DEVICE**

INVENTOR:

COOK, Robert ...

...CA)

HYLANDS, Dave ...

25/3,K/2 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00204073 \*\*Image available\*\*

**METHOD AND STRUCTURE FOR CALIBRATING A COMPUTER GENERATED IMAGE  
PROCEDE ET STRUCTURE D'ETALONNAGE D'UNE IMAGE DE SYNTHESE**

Patent Applicant/Assignee:

LIGHT SOURCE COMPUTER IMAGES INC,

Inventor(s):

COOK Robert L

Patent and Priority Information (Country, Number, Date):

Patent: WO 9201264 A1 19920123

Application: WO 91US4882 19910710 (PCT/WO US9104882)

Priority Application: US 90461 19900712

Designated States: AT AU BE CA CH DE DK ES FR GB GR IT JP LU NL SE  
Publication Language: English  
Fulltext Word Count: 5899

Inventor(s):

COOK Robert L ...

Fulltext Availability:

Detailed Description

Detailed Description

... that subsequently manipulate the  
image or prepare it for printing by doing color  
separation and **half tone** generation.

DESCRIPTION OF THE PRIOR ART

Computer imaging systems are faced with the problem  
that...calibration picture 106 by printer 105. If desired,  
program A may include color separations and **half tone**  
dot generation. The resulting calibration picture 106  
is scanned by scanner 107, with the resultant...

25/3,K/3 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00135127

PSEUDO-RANDOM POINT SAMPLING TECHNIQUES IN COMPUTER GRAPHICS  
TECHNIQUES D'INFORMATIQUE GRAPHIQUE A ECHANTILLONNAGE PSEUDO-ALEATOIRE DE  
POINTS

Patent Applicant/Assignee:

PIXAR,

Inventor(s):

COOK Robert L ,

PORTER Thomas K,

CARPENTER Loren C

Patent and Priority Information (Country, Number, Date):

Patent: WO 8607646 A1 19861231

Application: WO 86US1356 19860619 (PCT/WO US8601356)

Priority Application: US 85626 19850619

Designated States: AT AT AU BB BE BG BR CH CH DE DE DK FI FR GB GB HU IT JP

KP KR LK LU LU MC MG MW NL NL NO RO SD SE SE SU

Publication Language: English

Fulltext Word Count: 10914

Inventor(s):

COOK Robert L ...

Fulltext Availability:

Detailed Description

Detailed Description

... eliminate the aliasing effects of the technique, Others  
have suggested sampling in a non-periodic, **dithered**  
manner for a number of specific sampling applications.

The techniques of the present invention include...

?

30/3,K/1 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00156314

**SIGNAL PROCESSING APPARATUS AND METHODS**  
**DISPOSITIF ET PROCEDES DE TRAITEMENT DE SIGNAUX**

Patent Applicant/Assignee:

HARVEY John C,

Inventor(s):

HARVEY John C,

CUDDIHY James W,

Patent and Priority Information (Country, Number, Date):

Patent: WO 8902682 A1 19890323

Application: WO 88US3000 19880908 (PCT/WO US8803000)

Priority Application: US 8796 19870911

Designated States: AT AU BE BJ BR CF CG CH CM DE DK FI FR GA GB GB HU IT JP  
KP LK LU MC MG ML MR MW NL NO RO SE SN SU TD TG

Publication Language: English

Fulltext Word Count: 161690

Fulltext Availability:

Claims

Claim

... decisions

will become easier.

To unlock this potential fully requires means and  
25 methods for **combining** and controlling receiver systems that  
are now **separate** --television and computers, radio and  
computers, F broadcast print and computers, television and  
computers and...30 programs will be transmitted, when,, and over what  
channels..

The computer generates a video **image** of this schedule which  
it transmits over one cable channel to viewers which permits  
them...

?

File 9:Business & Industry(R) Jul/1994-2004/Jan 19  
     (c) 2004 Resp. DB Svcs.  
 File 15:ABI/Inform(R) 1971-2004/Jan 20  
     (c) 2004 ProQuest Info&Learning  
 File 16:Gale Group PROMT(R) 1990-2004/Jan 20  
     (c) 2004 The Gale Group  
 File 20:Dialog Global Reporter 1997-2004/Jan 21  
     (c) 2004 The Dialog Corp.  
 File 47:Gale Group Magazine DB(TM) 1959-2004/Jan 20  
     (c) 2004 The Gale group  
 File 75:TGG Management Contents(R) 86-2004/Jan W2  
     (c) 2004 The Gale Group  
 File 80:TGG Aerospace/Def.Mkts(R) 1986-2004/Jan 20  
     (c) 2004 The Gale Group  
 File 88:Gale Group Business A.R.T.S. 1976-2004/Jan 21  
     (c) 2004 The Gale Group  
 File 98:General Sci Abs/Full-Text 1984-2004/Dec  
     (c) 2004 The HW Wilson Co.  
 File 112:UBM Industry News 1998-2004/Jan 21  
     (c) 2004 United Business Media  
 File 141:Readers Guide 1983-2003/Nov  
     (c) 2003 The HW Wilson Co  
 File 148:Gale Group Trade & Industry DB 1976-2004/Jan 20  
     (c)2004 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
     (c) 1999 The Gale Group  
 File 275:Gale Group Computer DB(TM) 1983-2004/Jan 20  
     (c) 2004 The Gale Group  
 File 264:DIALOG Defense Newsletters 1989-2004/Jan 15  
     (c) 2004 The Dialog Corp.  
 File 484:Periodical Abs Plustext 1986-2004/Jan W2  
     (c) 2004 ProQuest  
 File 553:Wilson Bus. Abs. FullText 1982-2004/Dec  
     (c) 2004 The HW Wilson Co  
 File 570:Gale Group MARS(R) 1984-2004/Jan 20  
     (c) 2004 The Gale Group  
 File 608:KR/T Bus.News. 1992-2004/Jan 21  
     (c)2004 Knight Ridder/Tribune Bus News  
 File 620:EIU:Viewswire 2004/Jan 20  
     (c) 2004 Economist Intelligence Unit  
 File 613:PR Newswire 1999-2004/Jan 21  
     (c) 2004 PR Newswire Association Inc  
 File 621:Gale Group New Prod.Annou.(R) 1985-2004/Jan 20  
     (c) 2004 The Gale Group  
 File 623:Business Week 1985-2004/Jan 20  
     (c) 2004 The McGraw-Hill Companies Inc  
 File 624:McGraw-Hill Publications 1985-2004/Jan 20  
     (c) 2004 McGraw-Hill Co. Inc  
 File 634:San Jose Mercury Jun 1985-2004/Jan 20  
     (c) 2004 San Jose Mercury News  
 File 635:Business Dateline(R) 1985-2004/Jan 20  
     (c) 2004 ProQuest Info&Learning  
 File 636:Gale Group Newsletter DB(TM) 1987-2004/Jan 20  
     (c) 2004 The Gale Group  
 File 647:CMP Computer Fulltext 1988-2004/Jan W2  
     (c) 2004 CMP Media, LLC  
 File 696:DIALOG Telecom. Newsletters 1995-2004/Jan 15  
     (c) 2004 The Dialog Corp.  
 File 674:Computer News Fulltext 1989-2004/Jan W2  
     (c) 2004 IDG Communications  
 File 810:Business Wire 1986-1999/Feb 28

(c) 1999 Business Wire  
File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc  
? ds

Set	Items	Description
S1	3097891	(FILTER? OR SCREEN?)
S2	46748	(HALF()TON? OR DITHER? OR ERROR()DIFFUS? OR HALFTON?)
S3	86	S1(7N)S2(7N) (INPUT OR ORIGINAL) (7N) (OUTPUT OR PRINT?)
S4	10520641	(TINT? OR SHADE? OR SPOT OR CHERRY())APPLE OR CHERRY OR ROSE OR RED OR BRICK OR GREEN()YELLOW OR MAROON OR TONE OR GRADAT- ION? OR HUE? OR LIGHT OR DARK)
S5	5375380	(MAGENTA OR CYAN OR RED OR GREEN OR BLUE OR YELLOW OR RGB - OR CMYK )
S6	10597879	PERCENT? OR FRACTION?
S7	7734426	(COLOR? OR COLOUR? OR COLORANT? OR COLOURANT? OR INK? OR D- YE?? OR SHADE?? OR TINT?? OR SPOT OR TONE?? OR GRADATION? OR - HUE?? OR CONTRAST???)
S8	2366	S1(7N)BITMAP?
S9	6109253	(TINT? OR SHADE? OR GRADATION? OR SPOT OR TONE? OR HUE? OR COLOR? OR COLOUR? OR COLOURANT? OR COLORANT?)
S10	1346	S2(S)S6
S11	5102832	(COLOR? OR COLOUR? OR COLOURANT? OR COLORANT? OR TINT? OR - TONE? OR SHADE? OR GRADATION? OR INK?)
S12	5529490	(COLOR? OR INK? OR COLOUR? OR COLORANT? OR COLOURANT? OR T- INT? OR TONE? OR SHAD??? OR GRADATION?)
S13	465	S12(S) (COMBIN? OR MERG? OR JOIN? OR BLEND?) (S)S1(S)S2
S14	4455	AU= (COOK, R? OR HYLANDS, D? OR BLONDAL, D? OR COOK R? OR - HYLANDS D? OR BLONDAL D?)
S15	0	S8(S)S10(S)S6
S16	0	S3(S)S4(S)S5(S)S6
S17	4	S3(S)S4(S)S5
S18	3	RD S17 (unique items)
S19	0	S3(S)S4(S)S6
S20	21	S9(S)S10(S) (COMBIN? OR MERG? OR JOIN? OR BLEND?) (S)S1(S)S2
S21	15	S20(S)PRINT?
S22	15	S21 NOT S17
S23	0	S22 AND PY=2000:2004
S24	13	S2 AND S14
S25	13	S24 NOT S17
S26	6	RD S25 (unique items)
S27	3142788	(S7 OR S9 OR S11 OR S12) (S)S4
S28	16904	S27(S)S5(S)S6
S29	6	S28(S)RASTER?
S30	6	S29 NOT (S24 OR S17)
S31	6	RD S30 (unique items)
S32	2648	CREO()PRODUCTS
S33	0	S32(S)S3
S34	0	S32(S)S28

18/3,K/1 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2004 The Dialog Corp. All rts. reserv.

25226077 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Hands On - Graphics and DTP - But is it art?**  
PC WORLD, p202  
November 01, 2002  
JOURNAL CODE: WPCW LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 1549

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... colour underneath. You can reduce the likelihood of problems by sticking to process colours and **tints** - **cyan** , **magenta** and **yellow** for the colour 'underlays'.

CONTACTS

Ken McMahon welcomes your comments on the Graphics and DTP...

18/3,K/2 (Item 1 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2004 The Gale group. All rts. reserv.

04041035 SUPPLIER NUMBER: 15060110 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Help line: Q&A. (question and answer) (Here's How) (Column)**  
Spanbauer, Scott  
PC World, v12, n2, p224(3)  
Feb, 1994  
DOCUMENT TYPE: Column ISSN: 0737-8939 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT  
WORD COUNT: 2112 LINE COUNT: 00166

... ll see smooth tones. The same photo reproduced in a magazine will reveal many fine **cyan** , **magenta** , **yellow** , and black dots under magnification. Since traditional printing processes can't re-create the smooth changes in color and **tone** found in photographic film and **prints** , **printers** approximate them using screens of solid-color dots of varying sizes, called halftones. The finer the **screen** , the higher the perceived quality of the photo.

Digital audio, like the **printer** 's **halftone** , represents the smooth changes and tonal nuances in the **original** analog signal using a kind of "**screen** ." In a 16-bit, 44.1-kHz digital audio recording, that screen has a resolution...

18/3,K/3 (Item 1 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
(c) 1999 The Gale Group. All rts. reserv.

01551089  
**Special paper yields two-color prints.**  
MACHINE DESIGN January 8, 1987 p. 16

Repro Specialty Coatings introduced two-color paper that yields two-color prints. A tonal **blue** and reddish **print** is produced using the paper, dubbed TGP33ST, from only one pass through a diazo blueprint machine. When going from translucent **original** to the two-color process, an intermediate film is required; other alternatives for the intermediate film include a sepia **print** or **halftone screened original** . The

26/3,K/1 (Item 1 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2004 The Gale group. All rts. reserv.

03452372 SUPPLIER NUMBER: 09493827  
**Color for the desktop: new printer technologies offer color at a price.**  
Cook, Rick  
Byte, v15, n11, p175(6)  
Fal, 1990  
ISSN: 0360-5280 LANGUAGE: ENGLISH RECORD TYPE: ABSTRACT

Cook, Rick

...ABSTRACT: their sales growth. Prices are declining, and more flexible and improved color printing technologies (using **dithering**, dye sublimation, color laser and dye transfer) are becoming available or will arrive in the...

26/3,K/2 (Item 2 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2004 The Gale group. All rts. reserv.

03002750 SUPPLIER NUMBER: 05171395  
**A gray area for page printers - photography. (in Printer Technologies section) (technical)**  
Cook, Rick  
Byte, v12, n10, p192(2)  
Sept, 1987  
DOCUMENT TYPE: technical ISSN: 0360-5280 LANGUAGE: ENGLISH  
RECORD TYPE: ABSTRACT

Cook, Rick

...ABSTRACT: but larger cells have more dots and can produce more shades and higher resolution. This **halftone** simulation process is handled by, for example, Adobe Systems' PostScript; but the fact that dot...

...edge definition and other continuous tone sharpness. DP-Tek's Laserport controller, which comes with **halftoning** software, varies the shape of a laser's dots by, presumably, varying either laser beam...

26/3,K/3 (Item 3 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2004 The Gale group. All rts. reserv.

02960488 SUPPLIER NUMBER: 05222786  
**Page printers. (new printer technologies; includes articles on halftone printers, typography)**  
Cook, Rick  
Byte, v12, p187(10)  
Sept, 1987  
CODEN: BYTEDJ LANGUAGE: ENGLISH RECORD TYPE: CITATION

**Page printers. (new printer technologies; includes articles on halftone printers, typography)**  
Cook, Rick

26/3,K/4 (Item 1 from file: 88)  
DIALOG(R)File 88:Gale Group Business A.R.T.S.  
(c) 2004 The Gale Group. All rts. reserv.

06052471 SUPPLIER NUMBER: 82803995  
**Women and Health.**  
Cook, Rebecca J. ; Dickens, Bernard M  
WIN News, 28, 1, 22(9)  
Wntr, 2002  
ISSN: 0145-7985 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 6652 LINE COUNT: 00544

Cook, Rebecca J ...  
... even as scientists, doctors and church ministers ring the alarm  
bells, government officials continue to **dither** .  
'We cannot afford any more blunders,' Dr. Malegapuru Makgoba,  
president of the Medical Research Council...

26/3,K/5 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

05813254 SUPPLIER NUMBER: 11963766 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Mimicking Mickey; traditional character animation software lets users  
create in the style of Disney. (Software Review) (Walt Disney Computer  
Software Inc.'s The Animation Studio) (Evaluation)**  
Cook, Rick  
Computer Graphics World, v15, n2, p85(3)  
Feb, 1992  
DOCUMENT TYPE: Evaluation ISSN: 0271-4159 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 2255 LINE COUNT: 00173

Cook, Rick  
... fill-to-color tools, but there is no gradated fill capability.  
Color cycling exists, but **dithering** is supported only by a single, fairly  
coarse, two-color, checkerboard pattern. There is no...

26/3,K/6 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

01544122 SUPPLIER NUMBER: 12873555 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Computer-powered sailing. (data processing in the America's Cup yacht race)  
(includes related article on technical aspects of sailing) (Information  
Technology at Work supplement)**  
Cook, Rick  
LAN Technology, v8, n12, pS46(9)  
Nov, 1992  
ISSN: 1042-4695 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 8312 LINE COUNT: 00615

Cook, Rick  
... America's Cup race carry GPS receivers. However, because the GPS  
signal is deliberately distorted ( **dithered** ) by the military, a civilian  
GPS receiver is normally accurate to only a few hundred...  
?



31/3,K/1 (Item 1 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2004 Resp. DB Svcs. All rts. reserv.

2809696 Supplier Number: 02809696 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
Digital products from PMA 2000: Part 3 of 3  
(Wide-format inkjet printers, inkjet ink and media, desktop printers, color management tools and desktop scanners all had digital product introductions at PMA 2000)  
Photo Marketing, v 75, n 5, p 56+  
May 2000  
DOCUMENT TYPE: Journal ISSN: 0031-8531 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 638

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...ranging from 9.7 smph for draft quality to 5.2 smph for photo quality.

**Raster** Graphics System Inc. (800-4414788) displayed the Bellise Digital Picture Press, a high-speed, six- **color** , piezo **inkjet** printer for indoor graphic applications. The 52-inch-wide printer operates at 720-by-720...

...dpi. Employing 24 print heads with a total of 3,072 nozzles, the unit uses **dye**-based **inks** in **cyan** , **light cyan** , **magenta** , **light magenta** , **yellow** , and black; and is equipped with 1 liter "bags" of **ink** , which provide 5,000 square feet of output from one **ink** set, based upon 100 **percent** coverage. The company reports, when running in its 720-by-720 dpi resolution mode, the Bellise's six- **color** prints are comparable to 1,440 dpi four- **color** prints using the unit's **ColorBlend** technology, which widens the **color** gamut, provides overall smoothness, and increases detail.

Ilford Imaging USA Inc. (201-265-6000) announced...

31/3,K/2 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

07769702 Supplier Number: 64991717 (USE FORMAT 7 FOR FULLTEXT)  
**Jet printer.**  
Geospatial Solutions, v10, n8, p32  
August, 2000  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; General  
Word Count: 98

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

Roland's Hi-Fi JET printer is designed for photo reproduction applications and uses six **colors** , including **CMYK** with either **light cyan** and **light magenta** , or orange and **green** . Capable of printing at 1,440 dots per inch and simulating more than 97 **percent** of the solid Pantone **colors** , the unit is available in 40- and 50-inch widths with Adobe Postscript 3-compatible **raster** image processor. When used with its Rag Fine Art Paper and pigment **inks** , the printer is reportedly capable of producing images with more than 120 years print permanence...

31/3,K/3 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2004 The Dialog Corp. All rts. reserv.

31986063 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**AeA Classic Financial Conference 2003 Presenter Profiles for Session 2**  
BUSINESS WIRE  
October 29, 2003  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 8131

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... and improve their coverage areas without investing in infrastructure. Another recently developed product is the **RASTER** (TM) WiFi Antenna. The **Raster** is an adaptive beamforming smart antenna technology for 802.11 applications. Products based on **RASTER** will not require any changes to the 802.11 standard, and are expected to work... years (fiscal 1999-2003). Since 1997, Drexler has made over 20 million U.S. government **Green** Cards and Border Crossing Cards. The Company also makes ID cards for issuance by the...hard disk drives. I

31/3,K/4 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

02030416 SUPPLIER NUMBER: 03251607 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Graphics terminals; electronic windows to the shop floor.**

Kaye, Steven

Production Engineering, v31, p60(4)

May, 1984

ISSN: 0146-1737 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 1627 LINE COUNT: 00131

... for the operator to enter data and commands into the system as needed.

Because the **color** graphics display is the operator's window to his operation, and because he is allowed...

...on the screen at a time, updates to the picture should be accomplished in a **fraction** of a second, while complete picture changes should require no more than one or two...

...Display by scan or stroke. There are two ways of displaying information on a CRT; **raster** -scan and vector, or stroke, writing. In a **raster** -Scan display, the smallest controllable display element is a cluster of **red** , **green** , and **blue** phosphor dots called a picture element, or pixel.

The two main display techniques used in...

31/3,K/5 (Item 1 from file: 647)

DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

01022595 CMP ACCESSION NUMBER: WIN19940501S2332

**First Choices 1. Color...**

WINDOWS MAGAZINE, 1994, n 505 , 203

PUBLICATION DATE: 940501

JOURNAL CODE: WIN LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: Pullout

WORD COUNT: 902

Terms to Know DCS (Desktop **Color** Separation): An .EPS file format that contains the four- **color** separation plates ( **CMYK** ) and a master low-resolution file for placement. EPS (Encapsulated PostScript): A graphics file format...

...Prepress Interface): Swaps low -resolution TIFF files with high-resolution files on the RIP. Process **color** : Plates for **percentages** of each of the four process **colors** **cyan** , **magenta** , **yellow** and black ( **CMYK** ) are prepared for the reproduction of photographs. RIP ( **Raster** Image Processor): A PostScript interpreter that changes PostScript code to the **raster** image that is output onto film. **Spot color** : Specially mixed **inks** typically used when film is prepared for illustrations or solid- **color** graphics. Stylesheet: With stylesheets, you can automate type specs, rules and other formats for various...

31/3,K/6 (Item 1 from file: 696)

DIALOG(R)File 696:DIALOG Telecom. Newsletters  
(c) 2004 The Dialog Corp. All rts. reserv.

00721919

**SEGA WILL GIVE DREAMCASTS AWAY AS \$200 REBATE**

CONSUMER MULTIMEDIA REPORT

April 17, 2000 DOCUMENT TYPE: NEWSLETTER

PUBLISHER: WARREN PUBLISHING INC.

LANGUAGE: ENGLISH

WORD COUNT: 1544

RECORD TYPE: FULLTEXT

(c) WARREN PUBLISHING INC. All Rts. Reserv.

TEXT:

...introduced last month, "has been a phenomenal success at retail," with "as many as 40 **percent** of purchasers" buying game and then taking advantage of its online components. Average daily online...t be first for Sega, which had long-standing practice of manufacturing consoles with that **color** before current gray Dreamcast.

Sega also signed exclusive agreement with San Francisco Giants that allows...

...being made available to any videogame console. Sega version is being developed by Activision and **Raster** Productions and will ship later this year. Sega said those